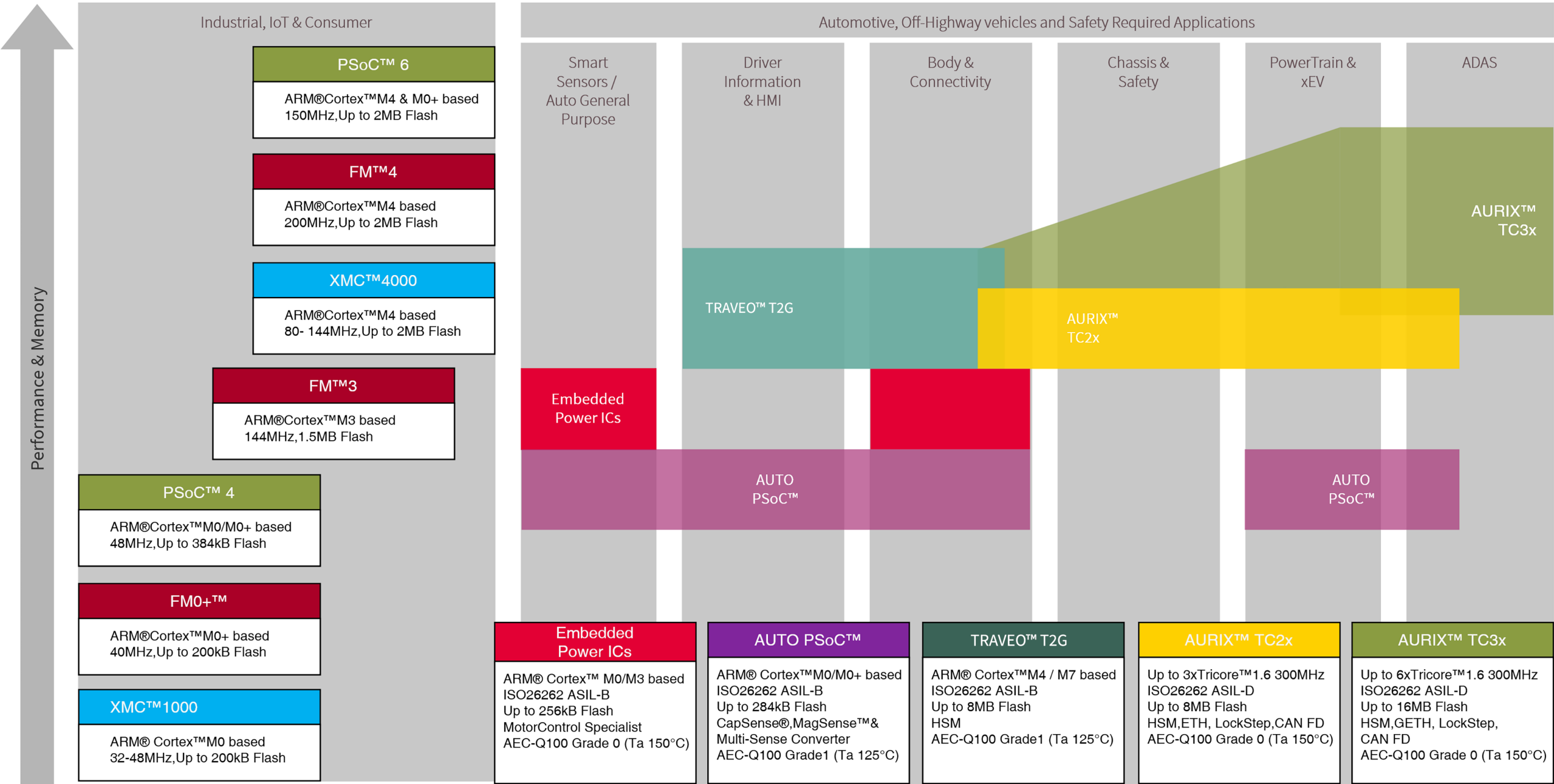


Infinion microcontrollers portfolio



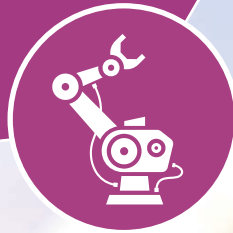
Note: AURIX™ is recommended for Industrial Applications that requires Safety ASIL-D and IEC 61508

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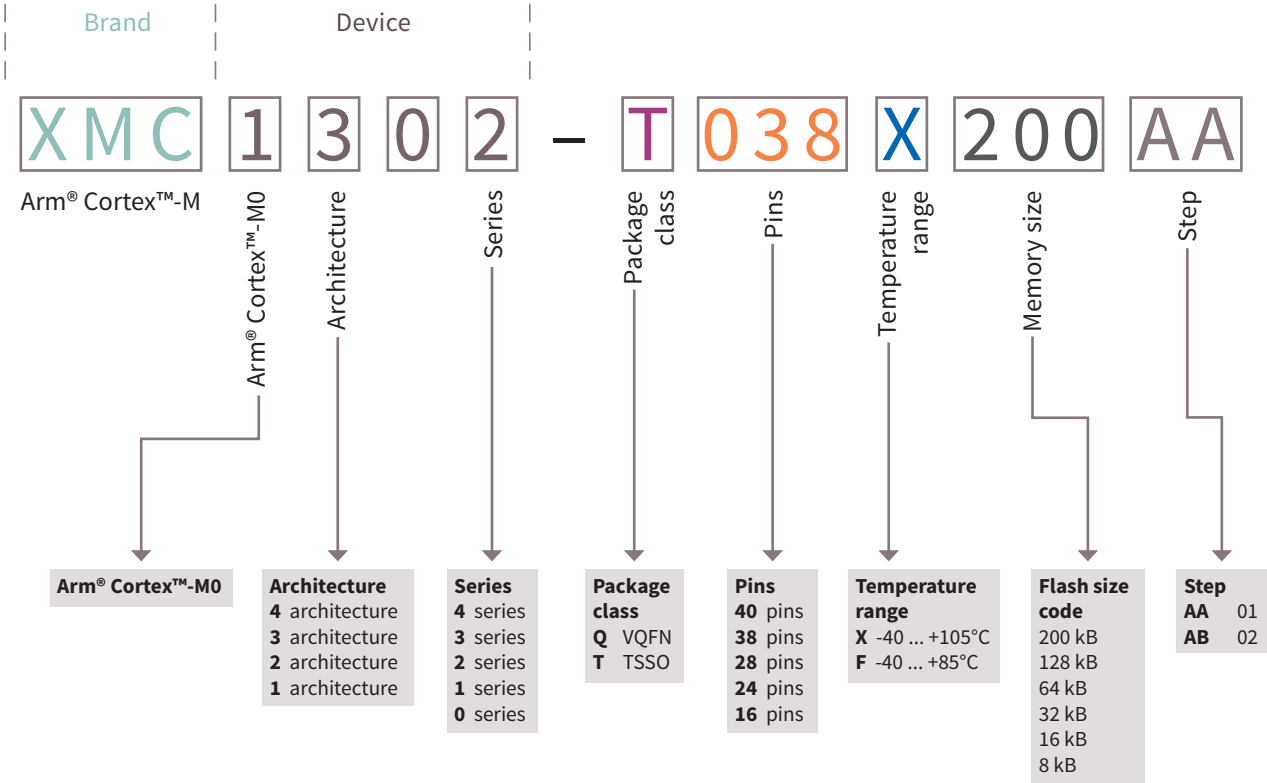
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Industrial, IoT and Consumer



32-bit XMC™ Microcontroller – XMC1000 family



32-bit XMC™ Microcontroller – XMC1000 family

Product type/partnumber	Markets			Package	GPIOs	Core		Co-processor			System							Debug		Supply voltage [V]	Operating temperature range T _A [°C]	Memory				Data/IP protection	Secure bootloader	Peripherals clock [MHz]	Analog			Timer/PWM						Communication										LED display	Capacitive touch					
	Automotive	Industrial	Consumer			Processor type	Core frequency [MHz]	CORDIC/DIV	DSP	FPU	ERU	DMA	MPU	CRC	PRNG	Watchdog	Real-Time Clock	SWD, SPD	JTAG, Trace			Flash	ECC	RAM	Cache				EEPROM emulationin flash	No. of 12-bit ADC/ No. of sample & hold/ No. of inputs	12-bit DAC	Comparator	CCU4	CCU8	HRPWM (150 ps)	ΔΣ Demodulator	POSIF	BCCU/LED	EtherCAT®	IEEE1588 Ethernet MAC	CAN 2.0B nodes	USB	SDIO/SD/MMC	USIC (Universal Serial Interface Controller)								External Bus Unit (EBU)		
																																												# channels	SPI	Dual SPI	Quad SPI			UART/SCI	IIC/I ² C		IIS/I ² S	LIN
XMC1200 Series																																																						
XMC1201-Q040F0032	-	●	●	VQFN-40	34	Cortex®-M0	32	-	-	-	1	-	-	-	●	●	●	●	-	1.8 to 5.5	-40 to 85	32	-	16	-	●	-	●	64	1/2/12	-	3x	4 ch	-	-	-	-	-	-	-	-	-	-	2 ch	●	●	●	●	●	●	●	-	2x 64 segment	16 ch
XMC1201-Q040F0064	-	●	●	VQFN-40	34	Cortex®-M0	32	-	-	-	1	-	-	-	●	●	●	●	-	1.8 to 5.5	-40 to 85	64	-	16	-	●	-	●	64	1/2/12	-	3x	4 ch	-	-	-	-	-	-	-	-	-	-	2 ch	●	●	●	●	●	●	●	-	2x 64 segment	16 ch
XMC1201-Q040F0128	-	●	●	VQFN-40	34	Cortex®-M0	32	-	-	-	1	-	-	-	●	●	●	●	-	1.8 to 5.5	-40 to 85	128	-	16	-	●	-	●	64	1/2/12	-	3x	4 ch	-	-	-	-	-	-	-	-	-	-	2 ch	●	●	●	●	●	●	●	-	2x 64 segment	16 ch
XMC1201-Q040F0200	-	●	●	VQFN-40	34	Cortex®-M0	32	-	-	-	1	-	-	-	●	●	●	●	-	1.8 to 5.5	-40 to 85	200	-	16	-	●	-	●	64	1/2/12	-	3x	4 ch	-	-	-	-	-	-	-	-	-	-	2 ch	●	●	●	●	●	●	●	-	2x 64 segment	16 ch
XMC1201-T028F0016	-	●	●	TSSOP-28	26	Cortex®-M1	32	-	-	-	1	-	-	-	●	●	●	●	-	1.8 to 5.5	-40 to 85	16	-	16	-	●	-	●	64	1/2/10	-	2x	4 ch	-	-	-	-	-	-	-	-	-	-	2 ch	●	●	●	●	●	●	●	-	2x 64 segment	16 ch
XMC1201-T028F0032	-	●	●	TSSOP-28	26	Cortex®-M1	32	-	-	-	1	-	-	-	●	●	●	●	-	1.8 to 5.5	-40 to 85	32	-	16	-	●	-	●	64	1/2/10	-	2x	4 ch	-	-	-	-	-	-	-	-	-	-	2 ch	●	●	●	●	●	●	●	-	2x 64 segment	16 ch
XMC1202-T016X0016	-	●	●	TSSOP-16	14	Cortex®-M0	32	-	-	-	1	-	-	-	●	●	●	●	-	1.8 to 5.5	-40 to 105	16	-	16	-	●	-	●	64	1/2/7	-	2x	4 ch	-	-	-	-	9 ch	-	-	-	-	-	2 ch	●	●	●	●	●	●	●	-	-	-
XMC1202-T016X0032	-	●	●	TSSOP-16	14	Cortex®-M0	32	-	-	-	1	-	-	-	●	●	●	●	-	1.8 to 5.5	-40 to 105	32	-	16	-	●	-	●	64	1/2/7	-	2x	4 ch	-	-	-	-	9 ch	-	-	-	-	-	2 ch	●	●	●	●	●	●	●	-	-	-
XMC1202-T028X0016	-	●	●	TSSOP-28	26	Cortex®-M0	32	-	-	-	1	-	-	-	●	●	●	●	-	1.8 to 5.5	-40 to 105	16	-	16	-	●	-	●	64	1/2/10	-	3x	4 ch	-	-	-	-	9 ch	-	-	-	-	-	2 ch	●	●	●	●	●	●	●	-	-	-
XMC1202-T028X0032	-	●	●	TSSOP-28	26	Cortex®-M0	32	-	-	-	1	-	-	-	●	●	●	●	-	1.8 to 5.5	-40 to 105	32	-	16	-	●	-	●	64	1/2/10	-	3x	4 ch	-	-	-	-	9 ch	-	-	-	-	-	2 ch	●	●	●	●	●	●	●	-	-	-
XMC1202-T028X0064	-	●	●	TSSOP-28	26	Cortex®-M0	32	-	-	-	1	-	-	-	●	●	●	●	-	1.8 to 5.5	-40 to 105	64	-	16	-	●	-	●	64	1/2/10	-	3x	4 ch	-	-	-	-	9 ch	-	-	-	-	-	2 ch	●	●	●	●	●	●	●	-	-	-
XMC1202-Q024X0016	-	●	●	VQFN-24	22	Cortex®-M0	32	-	-	-	1	-	-	-	●	●	●	●	-	1.8 to 5.5	-40 to 105	16	-	16	-	●	-	●	64	1/2/9	-	3x	4 ch	-	-	-	-	9 ch	-	-	-	-	-	2 ch	●	●	●	●	●	●	●	-	-	-
XMC1202-Q024X0032	-	●	●	VQFN-24	22	Cortex®-M0	32	-	-	-	1	-	-	-	●	●	●	●	-	1.8 to 5.5	-40 to 105	32	-	16	-	●	-	●	64	1/2/9	-	3x	4 ch	-	-	-	-	9 ch	-	-	-	-	-	2 ch	●	●	●	●	●	●	●	-	-	-
XMC1202-Q040X0016	-	●	●	VQFN-40	26	Cortex®-M0	32	-	-	-	1	-	-	-	●	●	●	●	-	1.8 to 5.5	-40 to 105	16	-	16	-	●	-	●	64	1/2/12	-	3x	4 ch	-	-	-	-	9 ch	-	-	-	-	-	2 ch	●	●	●	●	●	●	●	-	-	-
XMC1202-Q040X0032	-	●	●	VQFN-40	26	Cortex®-M0	32	-	-	-	1	-	-	-	●	●	●	●	-	1.8 to 5.5	-40 to 105	32	-	16	-	●	-	●	64	1/2/12	-	3x	4 ch	-	-	-	-	9 ch	-	-	-	-	-	2 ch	●	●	●	●	●	●	●	-	-	-
XMC1202-T016X0064	-	●	●	TSSOP-16	14	Cortex®-M0	32	-	-	-	1	-	-	-	●	●	●	●	-	1.8 to 5.5	-40 to 106	64	-	16	-	●	-	●	64	1/2/7	-	2x	4 ch	-	-	-	-	-	-	-	-	-	-	2 ch	●	●	●	●	●	●	●	-	-	-
XMC1300 Series																																																						
XMC1301-T016F0008	-	●	●	TSSOP-16	14	Cortex®-M0	32	-	-	-	1	-	-	-	●	●	●	●	-	1.8 to 5.5	-40 to 85	8	-	16	-	●	-	●	64	1/2/7	-	2x	4 ch	4 ch	-	-	1x	-	-	-	-	-	-	2 ch	●	●	●	●	●	●	●	-	-	-
XMC1301-T016X0008	-	●	●	TSSOP-16	14	Cortex®-M0	32	-	-	-	1	-	-	-	●	●	●	●	-	1.8 to 5.5	-40 to 85	8	-	16	-	●	-	●	64	1/2/7	-	2x	4 ch	4 ch	-	-	1x	-	-	-	-	-	-	2 ch	●	●	●	●	●	●	●	-	-	-
XMC1301-T016F0016	-	●	●	TSSOP-16	14	Cortex®-M0	32	-	-	-	1	-	-	-	●	●	●	●	-	1.8 to 5.5	-40 to 85	16	-	16	-	●	-	●	64	1/2/7	-	2x	4 ch	4 ch	-	-	1x	-	-	-	-	-	-	2 ch	●	●	●	●	●	●	●	-	-	-
XMC1301-T016X0016	-	●	●	TSSOP-16	14	Cortex®-M0	32	-	-	-	1	-	-	-	●	●	●	●	-	1.8 to 5.5	-40 to 85	16	-	16	-	●	-	●	64	1/2/7	-	2x	4 ch	4 ch	-	-	1x	-	-	-	-	-	-	2 ch	●	●	●	●	●	●	●	-	-	-
XMC1301-T016F0032	-	●	●	TSSOP-16	14	Cortex®-M0	32	-	-	-	1	-	-	-	●	●	●	●	-	1.8 to 5.5	-40 to 85	32	-	16	-	●	-	●	64	1/2/7	-	2x	-	4 ch	-	-	1x	-	-	-	-	-	-	2 ch	●	●	●	●	●	●	●	-	-	-
XMC1301-T038F0008	-	●	●	TSSOP-38	34	Cortex®-M0	32	-	-	-	1	-	-	-	●	●	●	●	-	1.8 to 5.5	-40 to 85	8	-	16	-	●	-	●	64	1/2/12	-	3x	4 ch	4 ch	-	-	1x	-	-	-	-	-	-	2 ch	●	●	●	●	●	●	●	-	-	-
XMC1301-T038F0016	-	●	●	TSSOP-38	34	Cortex®-M0	32	-	-	-	1	-	-	-	●	●	●	●	-	1.8 to 5.5	-40 to 85	16	-	16	-	●	-	●	64	1/2/12	-	3x	4 ch	4 ch	-	-	1x	-	-	-	-	-	-	2 ch	●	●	●	●	●	●	●	-	-	-
XMC1301-T038F0032	-	●	●	TSSOP-38	34	Cortex®-M0	32	-	-	-	1	-	-	-	●	●	●	●	-	1.8 to 5.5	-40 to 85	32	-	16	-	●	-	●	64	1/2/12	-	3x	4 ch	4 ch	-	-	1x	-	-	-	-	-	-	2 ch	●	●	●	●	●	●	●	-	-	-
XMC1301-T038X0032	-	●	●	TSSOP-38	34	Cortex®-M0	32	-	-	-	1	-	-	-	●	●	●	●	-	1.8 to 5.5	-40 to 85	32	-	16	-	●	-	●	64	1/2/12	-	3x	4 ch	4 ch	-	-	1x	-	-	-	-	-	-	2 ch	●	●	●	●	●	●	●	-	-	-
XMC1301-T038F0064	-	●	●	TSSOP-38	34	Cortex®-M0	32	-	-	-	1	-	-	-	●	●	●	●	-	1.8 to 5.5	-40 to 85	64	-	16	-	●	-	●	64	1/2/12	-	3x	-	4 ch	-	-	1x	-	-	-	-	-	-	2 ch	●	●	●	●	●	●	●	-	-	-
XMC1301-T038X0064	-	●	●	TSSOP-38	34	Cortex®-M0	32	-	-	-	1	-	-	-	●	●	●	●	-	1.8 to 5.5	-40 to 105	64	-	16	-	●	-	●	64	1/2/12	-	3x	-	4 ch	-	-	1x	-	-	-	-	-	-	2 ch	●	●	●	●	●	●	●	-	-	-
XMC1301-Q024F0008	-	●	●	VQFN-24	22	Cortex®-M0	32	-	-	-	1	-	-	-	●	●	●	●	-	1.8 to 5.5	-40 to 85	8	-	16	-	●	-	●	64	1/2/9	-	3x	4 ch	4 ch	-	-	1x	-	-	-	-	-	-	2 ch	●	●	●	●	●	●	●	-	-	-

32-bit XMC™ Microcontroller – XMC1000 family

Product type/partnumber	Markets			Package	GPIOs	Core		Co-processor			System						Debug		Supply voltage [V]	Operating temperature range T _A [°C]	Memory					Data/IP protection	Secure bootloader	Peripherals clock [MHz]	Analog			Timer/PWM							Communication											LED display	Capacitive touch				
	Automotive	Industrial	Consumer			Processor type	Core frequency [MHz]	CORDIC/DIV	DSP	FPU	ERU	DMA	MPU	CRC	PRNG	Watchdog	Real-Time Clock	SWD, SPD			JTAG, Trace	Flash	ECC	RAM	Cache				EEPROM emulation	in flash	No. of 12-bit ADC/ No. of sample & hold/ No. of inputs	12-bit DAC	Comparator	CCU4	CCU8	HRPWM (150 ps)	ΔΣ Demodulator	POSIF	BCCU/LED	EtherCAT®	IEEE1588 Ethernet MAC	CAN 2.0B nodes	USB	SDIO/SD/MMC	USIC (Universal Serial Interface Controller)								External Bus Unit (EBU)		
																																													# channels	SPI	Dual SPI	Quad SPI	UART/SCI			IIC/I ² C		IIS/I ² S	LIN
XMC1300 Series																																																							
XMC1301-Q024F0016	-	●	●	VQFN-24	22	Cortex®-M0	32	-	-	-	1	-	-	-	●	●	●	●	-	1.8 to 5.5	-40 to 85	16	-	16	-	●	-	●	64	1/2/9	-	3x	4 ch	4 ch	-	-	1x	-	-	-	-	-	-	-	2 ch	●	●	●	●	●	●	●	-	-	-
XMC1301-Q040F0008	-	●	●	VQFN-40	34	Cortex®-M0	32	-	-	-	1	-	-	-	●	●	●	●	-	1.8 to 5.5	-40 to 85	8	-	16	-	●	-	●	64	1/2/12	-	3x	4 ch	4 ch	-	-	1x	-	-	-	-	-	-	-	2 ch	●	●	●	●	●	●	●	-	-	-
XMC1301-Q040F0016	-	●	●	VQFN-40	34	Cortex®-M0	32	-	-	-	1	-	-	-	●	●	●	●	-	1.8 to 5.5	-40 to 85	16	-	16	-	●	-	●	64	1/2/12	-	3x	4 ch	4 ch	-	-	1x	-	-	-	-	-	-	-	2 ch	●	●	●	●	●	●	●	-	-	-
XMC1301-Q040F0032	-	●	●	VQFN-40	34	Cortex®-M0	32	-	-	-	1	-	-	-	●	●	●	●	-	1.8 to 5.5	-40 to 85	32	-	16	-	●	-	●	64	1/2/12	-	3x	4 ch	4 ch	-	-	1x	-	-	-	-	-	-	-	2 ch	●	●	●	●	●	●	●	-	-	-
XMC1302-T016X0008	-	●	●	TSSOP-16	14	Cortex®-M0	32	●	-	-	1	-	-	-	●	●	●	●	-	1.8 to 5.5	-40 to 105	8	-	16	-	●	-	●	64	1/2/7	-	2x	4 ch	4 ch	-	-	1x	9 ch	-	-	-	-	-	-	2 ch	●	●	●	●	●	●	●	-	-	-
XMC1302-T016X0016	-	●	●	TSSOP-16	14	Cortex®-M0	32	●	-	-	1	-	-	-	●	●	●	●	-	1.8 to 5.5	-40 to 105	16	-	16	-	●	-	●	64	1/2/7	-	2x	4 ch	4 ch	-	-	1x	9 ch	-	-	-	-	-	-	2 ch	●	●	●	●	●	●	●	-	-	-
XMC1302-T016X0032	-	●	●	TSSOP-16	14	Cortex®-M0	32	●	-	-	1	-	-	-	●	●	●	●	-	1.8 to 5.5	-40 to 105	32	-	16	-	●	-	●	64	1/2/7	-	2x	4 ch	4 ch	-	-	1x	9 ch	-	-	-	-	-	-	2 ch	●	●	●	●	●	●	●	-	-	-
XMC1302-T028X0016	-	●	●	TSSOP-28	26	Cortex®-M0	32	●	-	-	1	-	-	-	●	●	●	●	-	1.8 to 5.5	-40 to 105	16	-	16	-	●	-	●	64	1/2/10	-	3x	4 ch	4 ch	-	-	1x	9 ch	-	-	-	-	-	-	2 ch	●	●	●	●	●	●	●	-	-	-
XMC1302-T028X0032	-	●	●	TSSOP-28	26	Cortex®-M0	32	●	-	-	1	-	-	-	●	●	●	●	-	1.8 to 5.5	-40 to 105	32	-	16	-	●	-	●	64	1/2/10	-	3x	4 ch	4 ch	-	-	1x	9 ch	-	-	-	-	-	-	2 ch	●	●	●	●	●	●	●	-	-	-
XMC1302-T028X0064	-	●	●	TSSOP-28	26	Cortex®-M0	32	●	-	-	1	-	-	-	●	●	●	●	-	1.8 to 5.5	-40 to 105	64	-	16	-	●	-	●	64	1/2/10	-	3x	4 ch	4 ch	-	-	1x	9 ch	-	-	-	-	-	-	2 ch	●	●	●	●	●	●	●	-	-	-
XMC1302-T028X0128	-	●	●	TSSOP-28	26	Cortex®-M0	32	●	-	-	1	-	-	-	●	●	●	●	-	1.8 to 5.5	-40 to 105	128	-	16	-	●	-	●	64	1/2/10	-	3x	4 ch	4 ch	-	-	1x	9 ch	-	-	-	-	-	-	2 ch	●	●	●	●	●	●	●	-	-	-
XMC1302-T028X0200	-	●	●	TSSOP-28	26	Cortex®-M0	32	●	-	-	1	-	-	-	●	●	●	●	-	1.8 to 5.5	-40 to 105	200	-	16	-	●	-	●	64	1/2/10	-	3x	4 ch	4 ch	-	-	1x	9 ch	-	-	-	-	-	-	2 ch	●	●	●	●	●	●	●	-	-	-
XMC1302-T038X0016	-	●	●	TSSOP-38	34	Cortex®-M0	32	●	-	-	1	-	-	-	●	●	●	●	-	1.8 to 5.5	-40 to 105	16	-	16	-	●	-	●	64	1/2/12	-	3x	4 ch	4 ch	-	-	1x	9 ch	-	-	-	-	-	-	2 ch	●	●	●	●	●	●	●	-	-	-
XMC1302-T038X0032	-	●	●	TSSOP-38	34	Cortex®-M0	32	●	-	-	1	-	-	-	●	●	●	●	-	1.8 to 5.5	-40 to 105	32	-	16	-	●	-	●	64	1/2/12	-	3x	4 ch	4 ch	-	-	1x	9 ch	-	-	-	-	-	-	2 ch	●	●	●	●	●	●	●	-	-	-
XMC1302-T038X0064	-	●	●	TSSOP-38	34	Cortex®-M0	32	●	-	-	1	-	-	-	●	●	●	●	-	1.8 to 5.5	-40 to 105	8	-	16	-	●	-	●	64	1/2/12	-	3x	4 ch	4 ch	-	-	1x	9 ch	-	-	-	-	-	-	2 ch	●	●	●	●	●	●	●	-	-	-
XMC1302-T038X0128	-	●	●	TSSOP-38	34	Cortex®-M0	32	●	-	-	1	-	-	-	●	●	●	●	-	1.8 to 5.5	-40 to 105	128	-	16	-	●	-	●	64	1/2/12	-	3x	4 ch	4 ch	-	-	1x	9 ch	-	-	-	-	-	-	2 ch	●	●	●	●	●	●	●	-	-	-
XMC1302-T038X0200	-	●	●	TSSOP-38	34	Cortex®-M0	32	●	-	-	1	-	-	-	●	●	●	●	-	1.8 to 5.5	-40 to 105	200	-	16	-	●	-	●	64	1/2/12	-	3x	4 ch	4 ch	-	-	1x	9 ch	-	-	-	-	-	-	2 ch	●	●	●	●	●	●	●	-	-	-
XMC1302-Q024F0016	-	●	●	VQFN-24	22	Cortex®-M0	32	●	-	-	1	-	-	-	●	●	●	●	-	1.8 to 5.5	-40 to 85	16	-	16	-	●	-	●	64	1/2/9	-	3x	4 ch	4 ch	-	-	1x	9 ch	-	-	-	-	-	-	2 ch	●	●	●	●	●	●	●	-	-	-
XMC1302-Q024X0016	-	●	●	VQFN-24	22	Cortex®-M0	32	●	-	-	1	-	-	-	●	●	●	●	-	1.8 to 5.5	-40 to 105	16	-	16	-	●	-	●	64	1/2/9	-	3x	4 ch	4 ch	-	-	1x	9 ch	-	-	-	-	-	-	2 ch	●	●	●	●	●	●	●	-	-	-
XMC1302-Q024F0032	-	●	●	VQFN-24	22	Cortex®-M0	32	●	-	-	1	-	-	-	●	●	●	●	-	1.8 to 5.5	-40 to 85	32	-	16	-	●	-	●	64	1/2/9	-	3x	4 ch	4 ch	-	-	1x	9 ch	-	-	-	-	-	-	2 ch	●	●	●	●	●	●	●	-	-	-
XMC1302-Q024X0032	-	●	●	VQFN-24	22	Cortex®-M0	32	●	-	-	1	-	-	-	●	●	●	●	-	1.8 to 5.5	-40 to 105	32	-	16	-	●	-	●	64	1/2/9	-	3x	4 ch	4 ch	-	-	1x	9 ch	-	-	-	-	-	-	2 ch	●	●	●	●	●	●	●	-	-	-
XMC1302-Q024F0064	-	●	●	VQFN-24	22	Cortex®-M0	32	●	-	-	1	-	-	-	●	●	●	●	-	1.8 to 5.5	-40 to 85	64	-	16	-	●	-	●	64	1/2/9	-	3x	4 ch	4 ch	-	-	1x	9 ch	-	-	-	-	-	-	2 ch	●	●	●	●	●	●	●	-	-	-
XMC1302-Q024X0064	-	●	●	VQFN-24	22	Cortex®-M0	32	●	-	-	1	-	-	-	●	●	●	●	-	1.8 to 5.5	-40 to 105	64	-	16	-	●	-	●	64	1/2/9	-	3x	4 ch	4 ch	-	-	1x	9 ch	-	-	-	-	-	-	2 ch	●	●	●	●	●	●	●	-	-	-
XMC1302-Q040X0016	-	●	●	VQFN-40	34	Cortex®-M0	32	●	-	-	1	-	-	-	●	●	●	●	-	1.8 to 5.5	-40 to 105	16	-	16	-	●	-	●	64	1/2/12	-	3x	4 ch	4 ch	-	-	1x	9 ch	-	-	-	-	-	-	2 ch	●	●	●	●	●	●	●	-	-	-
XMC1302-Q040X0032	-	●	●	VQFN-40	26	Cortex®-M0	32	●	-	-	1	-	-	-	●	●	●	●	-	1.8 to 5.5	-40 to 105	32	-	16	-	●	-	●	64	1/2/12	-	3x	4 ch	4 ch	-	-	1x	9 ch	-	-	-	-	-	-	2 ch	●	●	●	●	●	●	●	-	-	-
XMC1302-Q040X0064	-	●	●	VQFN-40	34	Cortex®-M0	32	●	-	-	1	-	-	-	●	●	●	●	-	1.8 to 5.5	-40 to 105	64	-	16	-	●	-	●	64	1/2/12	-	3x	4 ch	4 ch	-	-	1x	9 ch	-	-	-	-	-	-	2 ch	●	●	●	●	●	●	●	-	-	-
XMC1302-Q040X0128	-	●	●	VQFN-40	34	Cortex®-M0	32	●	-	-	1	-	-	-	●	●	●	●	-	1.8 to 5.5	-40 to 105	128	-	16	-	●	-	●	64	1/2/12	-	3x	4 ch	4 ch	-	-	1x	9 ch	-	-	-	-	-	-	2 ch	●	●	●	●	●	●	●	-	-	-
XMC1302-Q040X0200	-	●	●	VQFN-40	34	Cortex®-M0	32	●	-	-	1	-	-	-	●	●	●	●	-	1.8 to 5.5	-40 to 105	200	-	16	-	●	-	●	64	1/2/12	-	3x	4 ch	4 ch	-	-	1x	9 ch	-	-	-	-	-	-	2 ch	●	●	●	●	●	●	●	-	-	-

32-bit XMC™ Microcontroller – XMC1000 family

Product type/partnumber	Markets			Package	GPIOs	Core		Co-processor		System							Debug		Supply voltage [V]	Operating temperature range T _A [°C]	Memory					Secure bootloader	Peripherals clock [MHz]	Analog			Timer/PWM						Communication											LED display	Capacitive touch						
	Automotive	Industrial	Consumer			Processor type	Core frequency [MHz]	CORDIC/DIV	DSP	FPU	ERU	DMA	MPU	CRC	PRNG	Watchdog	Real-Time Clock	SWD, SPD			JTAG, Trace	Flash	ECC	RAM	Cache			EEPROM emulation in flash	Data/IP protection	No. of 12-bit ADC/ No. of sample & hold/ No. of inputs	12-bit DAC	Comparator	CCU4	CCU8	HRPWM (150 ps)	ΔΣ Demodulator	POSIF	BCCU/LED	EtherCAT®	IEEE1588 Ethernet MAC	CAN 2.0B nodes	USB	SDIO/SD/MMC	USIC (Universal Serial Interface Controller)								External Bus Unit (EBU)			
																																												# channels	SPI	Dual SPI	Quad SPI			UART/SCI	IIC/I ² C		IIS/I ² S	LIN	
XMC1400 Series																																																							
XMC1401-Q048F0064	–	●	●	VQFN-48	42	Cortex®-M0	48	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	–40 to 85	128	–	16	–	●	–	●	96	1/2/12	–	–	8 ch	–	–	–	–	–	–	–	–	–	–	–	4 ch	●	●	●	●	●	●	●	–	3x 64 segment	24 ch
XMC1401-Q048F0128	–	●	●	VQFN-48	42	Cortex®-M0	48	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	–40 to 85	128	–	16	–	●	–	●	96	1/2/12	–	–	8 ch	–	–	–	–	–	–	–	–	–	–	–	4 ch	●	●	●	●	●	●	●	–	3x 64 segment	24 ch
XMC1401-F064F0064	–	●	●	LQFP-64	55	Cortex®-M0	48	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	–40 to 85	64	–	16	–	●	–	●	96	1/2/12	–	–	8 ch	–	–	–	–	–	–	–	–	–	–	–	4 ch	●	●	●	●	●	●	●	–	3x 64 segment	24 ch
XMC1401-F064F0128	–	●	●	LQFP-64	55	Cortex®-M0	48	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	–40 to 85	128	–	16	–	●	–	●	96	1/2/12	–	–	8 ch	–	–	–	–	–	–	–	–	–	–	–	4 ch	●	●	●	●	●	●	●	–	3x 64 segment	24 ch
XMC1402-T038X0032	–	●	●	TSSOP-38	34	Cortex®-M0	48	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	–40 to 105	32	–	16	–	●	–	●	96	1/2/12	–	3x	8 ch	8 ch	–	–	2x	9 ch	–	–	–	–	–	–	4 ch	●	●	●	●	●	●	●	–	–	–
XMC1402-T038X0064	–	●	●	TSSOP-38	34	Cortex®-M0	48	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	–40 to 105	64	–	16	–	●	–	●	96	1/2/12	–	3x	8 ch	8 ch	–	–	2x	9 ch	–	–	–	–	–	–	4 ch	●	●	●	●	●	●	●	–	–	–
XMC1402-T038X0128	–	●	●	TSSOP-38	34	Cortex®-M0	48	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	–40 to 105	128	–	16	–	●	–	●	96	1/2/12	–	3x	8 ch	8 ch	–	–	2x	9 ch	–	–	–	–	–	–	4 ch	●	●	●	●	●	●	●	–	–	–
XMC1402-T038X0200	–	●	●	TSSOP-38	34	Cortex®-M0	48	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	–40 to 105	200	–	16	–	●	–	●	96	1/2/12	–	4x	8 ch	8 ch	–	–	2x	9 ch	–	–	–	–	–	–	4 ch	●	●	●	●	●	●	●	–	–	–
XMC1402-Q040X0032	–	●	●	VQFN-40	35	Cortex®-M0	48	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	–40 to 105	32	–	16	–	●	–	●	96	1/2/12	–	3x	8 ch	8 ch	–	–	2x	9 ch	–	–	–	–	–	–	4 ch	●	●	●	●	●	●	●	–	–	–
XMC1402-Q040X0064	–	●	●	VQFN-40	35	Cortex®-M0	48	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	–40 to 105	64	–	16	–	●	–	●	96	1/2/12	–	3x	8 ch	8 ch	–	–	2x	9 ch	–	–	–	–	–	–	4 ch	●	●	●	●	●	●	●	–	–	–
XMC1402-Q040X0128	–	●	●	VQFN-40	35	Cortex®-M0	48	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	–40 to 105	128	–	16	–	●	–	●	96	1/2/12	–	3x	8 ch	8 ch	–	–	2x	9 ch	–	–	–	–	–	–	4 ch	●	●	●	●	●	I ² S	●	–	–	–
XMC1402-Q040X0200	–	●	●	VQFN-40	35	Cortex®-M0	48	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	–40 to 105	200	–	16	–	●	–	●	96	1/2/12	–	3x	8 ch	8 ch	–	–	2x	9 ch	–	–	–	–	–	–	4 ch	●	●	●	●	●	●	●	–	–	–
XMC1402-Q048X0032	–	●	●	VQFN-48	42	Cortex®-M0	48	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	–40 to 105	32	–	16	–	●	–	●	96	1/2/12	–	4x	8 ch	8 ch	–	–	2x	9 ch	–	–	–	–	–	–	4 ch	●	●	●	●	●	●	●	–	–	–
XMC1402-Q048X0064	–	●	●	VQFN-48	42	Cortex®-M0	48	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	–40 to 105	64	–	16	–	●	–	●	96	1/2/12	–	4x	8 ch	8 ch	–	–	2x	9 ch	–	–	–	–	–	–	4 ch	●	●	●	●	●	●	●	–	–	–
XMC1402-Q048X0128	–	●	●	VQFN-48	42	Cortex®-M0	48	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	–40 to 105	128	–	16	–	●	–	●	96	1/2/12	–	4x	8 ch	8 ch	–	–	2x	9 ch	–	–	–	–	–	–	4 ch	●	●	●	●	●	●	●	–	–	–
XMC1402-Q048X0200	–	●	●	VQFN-48	42	Cortex®-M0	48	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	–40 to 105	200	–	16	–	●	–	●	96	1/2/12	–	4x	8 ch	8 ch	–	–	2x	9 ch	–	–	–	–	–	–	4 ch	●	●	●	●	●	●	●	–	–	–
XMC1402-Q064X0064	–	●	●	VQFN-64	55	Cortex®-M0	48	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	–40 to 105	64	–	16	–	●	–	●	96	1/2/12	–	4x	8 ch	8 ch	–	–	2x	9 ch	–	–	–	–	–	–	4 ch	●	●	●	●	●	●	●	–	–	–
XMC1402-Q064X0128	–	●	●	VQFN-64	55	Cortex®-M0	48	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	–40 to 105	128	–	16	–	●	–	●	96	1/2/12	–	4x	8 ch	8 ch	–	–	2x	9 ch	–	–	–	–	–	–	4 ch	●	●	●	●	●	●	●	–	–	–
XMC1402-Q064X0200	–	●	●	VQFN-64	55	Cortex®-M0	48	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	–40 to 105	200	–	16	–	●	–	●	96	1/2/12	–	4x	8 ch	8 ch	–	–	2x	9 ch	–	–	–	–	–	–	4 ch	●	●	●	●	●	●	●	–	–	–
XMC1402-F064X0064	–	●	●	LQFP-64	55	Cortex®-M0	48	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	–40 to 105	64	–	16	–	●	–	●	96	1/2/12	–	4x	8 ch	8 ch	–	–	2x	9 ch	–	–	–	–	–	–	4 ch	●	●	●	●	●	●	●	–	–	–
XMC1402-F064X0128	–	●	●	LQFP-64	55	Cortex®-M0	48	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	–40 to 105	128	–	16	–	●	–	●	96	1/2/12	–	4x	8 ch	8 ch	–	–	2x	9 ch	–	–	–	–	–	–	4 ch	●	●	●	●	●	●	●	–	–	–
XMC1402-F064X0200	–	●	●	LQFP-65	55	Cortex®-M0	48	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	–40 to 105	200	–	16	–	●	–	●	96	1/2/12	–	4x	8 ch	8 ch	–	–	2x	9 ch	–	–	–	–	–	–	4 ch	●	●	●	●	●	●	●	–	–	–
XMC1403-Q048X0064	–	●	●	VQFN-48	42	Cortex®-M0	48	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	–40 to 105	64	–	16	–	●	–	●	96	1/2/12	–	–	8 ch	–	–	–	–	–	–	–	2	–	–	4 ch	●	●	●	●	●	●	●	–	–	–	
XMC1403-Q048X0128	–	●	●	VQFN-48	42	Cortex®-M0	48	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	–40 to 105	128	–	16	–	●	–	●	96	1/2/12	–	–	8 ch	–	–	–	–	–	–	–	2	–	–	4 ch	●	●	●	●	●	●	●	–	–	–	

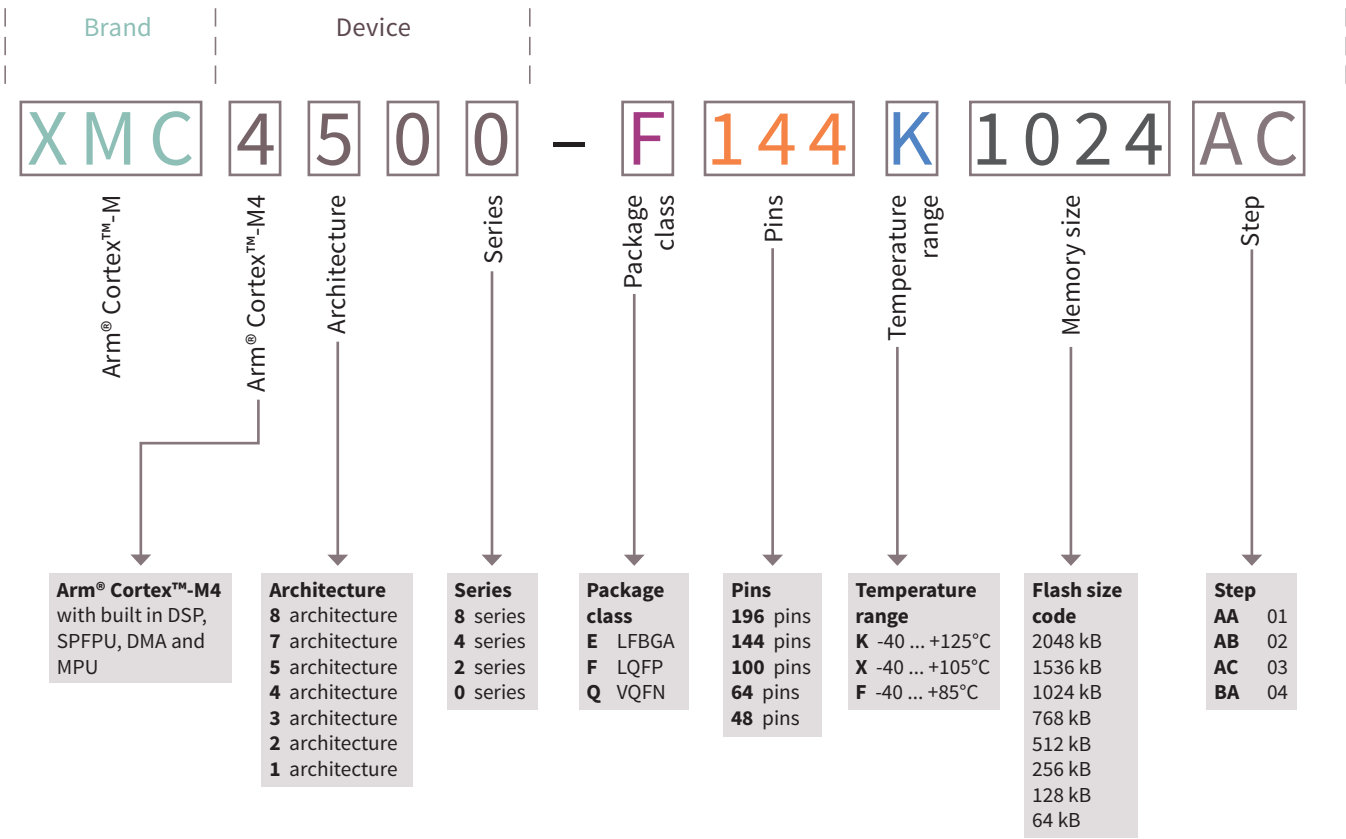
32-bit XMC™ Microcontroller – XMC1000 family

Product type/partnumber	Markets			Package	GPIOs	Core		Co-processor		System							Debug		Supply voltage [V]	Operating temperature range T _A [°C]	Memory					Data/IP protection	Secure bootloader	Peripherals clock [MHz]	Analog			Timer/PWM						Communication											LED display	Capacitive touch						
	Automotive	Industrial	Consumer			Processor type	Core frequency [MHz]	CORDIC/DIV	DSP	FPU	ERU	DMA	MPU	CRC	PRNG	Watchdog	Real-Time Clock	SWD, SPD			JTAG, Trace	Flash	ECC	RAM	Cache				EEPROM emulation in flash	No. of 12-bit ADC/ No. of sample & hold/ No. of inputs	12-bit DAC	Comparator	CCU4	CCU8	HRPWM (150 ps)	ΔΣ Demodulator	POSIF	BCCU/LED	EtherCAT®	IEEE1588 Ethernet MAC	CAN 2.0B nodes	USB	SDIO/SD/MMC	USIC (Universal Serial Interface Controller)							External Bus Unit (EBU)					
																																												# channels	SPI	Dual SPI	Quad SPI	UART/SCI				IIC/I ² C	IIS/I ² S	LIN		
XMC1400 Series																																																								
XMC1403-Q048X0200	–	●	●	VQFN-48	42	Cortex®-M0	48	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	200	–	16	–	●	–	●	96	1/2/12	–	–	8 ch	–	–	–	–	–	–	–	2	–	–	4 ch	●	●	●	●	●	●	●	●	–	–	–	–
XMC1403-Q064X0064	–	●	●	VQFN-64	55	Cortex®-M0	48	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	64	–	16	–	●	–	●	96	1/2/12	–	–	8 ch	–	–	–	–	–	–	–	2	–	–	4 ch	●	●	●	●	●	●	●	●	–	–	–	–
XMC1403-Q064X0128	–	●	●	VQFN-64	55	Cortex®-M0	48	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	128	–	16	–	●	–	●	96	1/2/12	–	–	8 ch	–	–	–	–	–	–	–	2	–	–	4 ch	●	●	●	●	●	●	●	●	–	–	–	–
XMC1403-Q064X0200	–	●	●	VQFN-64	55	Cortex®-M0	48	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	200	–	16	–	●	–	●	96	1/2/12	–	–	8 ch	–	–	–	–	–	–	–	2	–	–	4 ch	●	●	●	●	●	●	●	●	–	–	–	–
XMC1404-Q048X0064	–	●	●	VQFN-48	42	Cortex®-M0	48	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	64	–	16	–	●	–	●	96	1/2/12	–	4x	8 ch	8 ch	–	–	2x	9 ch	–	–	2	–	–	4 ch	●	●	●	●	●	●	●	●	–	3x 64 segment	24 ch	
XMC1404-Q048X0128	–	●	●	VQFN-48	42	Cortex®-M0	48	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	128	–	16	–	●	–	●	96	1/2/12	–	4x	8 ch	8 ch	–	–	2x	9 ch	–	–	2	–	–	4 ch	●	●	●	●	●	●	●	●	–	3x 64 segment	24 ch	
XMC1404-Q048X0200	–	●	●	VQFN-48	42	Cortex®-M0	48	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	200	–	16	–	●	–	●	96	1/2/12	–	4x	8 ch	8 ch	–	–	2x	9 ch	–	–	2	–	–	4 ch	●	●	●	●	●	●	●	●	–	3x 64 segment	24 ch	
XMC1404-Q064X0064	–	●	●	VQFN-64	55	Cortex®-M0	48	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	64	–	16	–	●	–	●	96	1/2/12	–	4x	8 ch	8 ch	–	–	2x	9 ch	–	–	2	–	–	4 ch	●	●	●	●	●	●	●	●	–	3x 64 segment	24 ch	
XMC1404-Q064X0128	–	●	●	VQFN-64	55	Cortex®-M0	48	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	128	–	16	–	●	–	●	96	1/2/12	–	4x	8 ch	8 ch	–	–	2x	9 ch	–	–	2	–	–	4 ch	●	●	●	●	●	●	●	●	–	3x 64 segment	24 ch	
XMC1404-Q064X0200	–	●	●	VQFN-64	55	Cortex®-M0	48	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	200	–	16	–	●	–	●	96	1/2/12	–	4x	8 ch	8 ch	–	–	2x	9 ch	–	–	2	–	–	4 ch	●	●	●	●	●	●	●	●	–	3x 64 segment	24 ch	
XMC1404-F064X0064	–	●	●	LQFP-64	55	Cortex®-M0	48	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	64	–	16	–	●	–	●	96	1/2/12	–	4x	8 ch	8 ch	–	–	2x	9 ch	–	–	2	–	–	4 ch	●	●	●	●	●	●	●	●	–	3x 64 segment	24 ch	
XMC1404-F064X0128	–	●	●	LQFP-64	55	Cortex®-M0	48	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	128	–	16	–	●	–	●	96	1/2/12	–	4x	8 ch	8 ch	–	–	2x	9 ch	–	–	2	–	–	4 ch	●	●	●	●	●	●	●	●	–	3x 64 segment	24 ch	
XMC1404-F064X0200	–	●	●	LQFP-64	55	Cortex®-M0	48	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	200	–	16	–	●	–	●	96	1/2/12	–	4x	8 ch	8 ch	–	–	2x	9 ch	–	–	2	–	–	4 ch	●	●	●	●	●	●	●	●	–	3x 64 segment	24 ch	

BCCU = Brightness and Color Control Unit for LED lighting
CCU = Capture Compare Unit
FPU = Floating Point Unit
MMC = Multi Media Card

POSIF = Motor Position Interface
SDIO = SD Card Interface with Input/Output
USIC = UART/SCI, SPI, Dual-SPI, Quad-SPI, IIC/I²C, IIS/I²S, LIN

32-bit XMC™ Microcontroller – XMC4000 family



32-bit XMC™ Microcontroller – XMC4000 family

Product type/partnumber	Markets					Core	Core frequency [MHz]	Co-processor			System							Debug		Supply voltage [V]	Operating temperature range T _A [°C]	Memory										No. of 12-bit ADC/ No. of sample & hold/ No. of inputs	Analog			Timer/PWM						Communication												LED display	Capacitive touch
	Automotive	Industrial	Consumer					Processor type	CORDIC/DIV	DSP	FPU	ERU	DMA	MPU	CRC	PRNG	Watchdog	Real-Time Clock	SWD, SPD			JTAG, Trace	Flash	ECC	RAM	Cache	EEPROM emulation in flash	Data/IP protection	Secure bootloader	Peripherals clock [MHz]	12-bit DAC		Comparator	CCU4	CCU8	HRPWM (150 ps)	ΔΣ Demodulator	POSIF	BCCU/LED	EtherCAT®	IEEE1588 Ethernet MAC	CAN 2.0B nodes	USB	SDIO/SD/MMC	USIC (Universal Serial Interface Controller)								External Bus Unit (EBU)		
																																													# channels	SPI	Dual SPI	Quad SPI	UART/SCI	IIC/I ² C	IIS/I ² S	LIN			
XMC4400 Series																																																							
XMC4402-F64F256	–	●	●	TQFP-64	41	Cortex®-M4	120	–	●	●	2	8 ch	1	1	●	●	●	●	●	3.13 to 3.63	–40 to 85	256	●	80	4	●	●	–	120	4/4/9	2 ch	–	16 ch	8 ch	●	4 ch	2x	–	–	–	2	●	–	4 ch	●	●	●	●	●	●	●	–	1x 64 segment	8 ch	
XMC4402-F64K256	–	●	●	TQFP-64	41	Cortex®-M4	120	–	●	●	2	8 ch	1	1	●	●	●	●	●	3.13 to 3.63	–40 to 125	256	●	80	4	●	●	–	120	4/4/9	2 ch	–	16 ch	8 ch	●	4 ch	2x	–	–	–	2	●	–	4 ch	●	●	●	●	●	●	●	–	1x 64 segment	8 ch	
XMC4402-F100F256	–	●	●	LQFP-100	75	Cortex®-M4	120	–	●	●	2	8 ch	1	1	●	●	●	●	●	3.13 to 3.63	–40 to 85	256	●	80	4	●	●	–	120	4/4/18	2 ch	–	16 ch	8 ch	●	4 ch	2x	–	–	–	2	●	–	4 ch	●	●	●	●	●	●	●	–	1x 64 segment	8 ch	
XMC4402-F100K256	–	●	●	LQFP-100	75	Cortex®-M4	120	–	●	●	2	8 ch	1	1	●	●	●	●	●	3.13 to 3.63	–40 to 125	256	●	80	4	●	●	–	120	4/4/18	2 ch	–	16 ch	8 ch	●	4 ch	2x	–	–	–	2	●	–	4 ch	●	●	●	●	●	●	●	–	1x 64 segment	8 ch	
XMC4400-F64F256	–	●	●	TQFP-64	41	Cortex®-M4	120	–	●	●	2	8 ch	1	1	●	●	●	●	●	3.13 to 3.63	–40 to 85	256	●	80	4	●	●	–	120	4/4/9	2 ch	–	16 ch	8 ch	●	4 ch	2x	–	–	●	2	●	–	4 ch	●	●	●	●	●	●	●	–	1x 64 segment	8 ch	
XMC4400-F64F512	–	●	●	TQFP-64	41	Cortex®-M4	120	–	●	●	2	8 ch	1	1	●	●	●	●	●	3.13 to 3.63	–40 to 85	512	●	80	4	●	●	–	120	4/4/9	2 ch	–	16 ch	8 ch	●	4 ch	2x	–	–	●	2	●	–	4 ch	●	●	●	●	●	●	●	–	1x 64 segment	8 ch	
XMC4400-F64K256	–	●	●	TQFP-64	41	Cortex®-M4	120	–	●	●	2	8 ch	1	1	●	●	●	●	●	3.13 to 3.63	–40 to 125	256	●	80	4	●	●	–	120	4/4/9	2 ch	–	16 ch	8 ch	●	4 ch	2x	–	–	●	2	●	–	4 ch	●	●	●	●	●	●	●	–	1x 64 segment	8 ch	
XMC4400-F64K512	–	●	●	TQFP-64	41	Cortex®-M4	120	–	●	●	2	8 ch	1	1	●	●	●	●	●	3.13 to 3.63	–40 to 125	512	●	80	4	●	●	–	120	4/4/9	2 ch	–	16 ch	8 ch	●	4 ch	2x	–	–	●	2	●	–	4 ch	●	●	●	●	●	●	●	–	1x 64 segment	8 ch	
XMC4400-F100F256	–	●	●	LQFP-100	75	Cortex®-M4	120	–	●	●	2	8 ch	1	1	●	●	●	●	●	3.13 to 3.63	–40 to 85	256	●	80	4	●	●	–	120	4/4/18	2 ch	–	16 ch	8 ch	●	4 ch	2x	–	–	●	2	●	–	4 ch	●	●	●	●	●	●	●	–	1x 64 segment	8 ch	
XMC4400-F100F512	–	●	●	LQFP-100	75	Cortex®-M4	120	–	●	●	2	8 ch	1	1	●	●	●	●	●	3.13 to 3.63	–40 to 85	512	●	80	4	●	●	–	120	4/4/18	2 ch	–	16 ch	8 ch	●	4 ch	2x	–	–	●	2	●	–	4 ch	●	●	●	●	●	●	●	–	1x 64 segment	8 ch	
XMC4400-F100K256	–	●	●	LQFP-100	75	Cortex®-M4	120	–	●	●	2	8 ch	1	1	●	●	●	●	●	3.13 to 3.63	–40 to 125	256	●	80	4	●	●	–	120	4/4/18	2 ch	–	16 ch	8 ch	●	4 ch	2x	–	–	●	2	●	–	4 ch	●	●	●	●	●	●	●	–	1x 64 segment	8 ch	
XMC4400-F100K512	–	●	●	LQFP-100	75	Cortex®-M4	120	–	●	●	2	8 ch	1	1	●	●	●	●	●	3.13 to 3.63	–40 to 125	512	●	80	4	●	●	–	120	4/4/18	2 ch	–	16 ch	8 ch	●	4 ch	2x	–	–	●	2	●	–	4 ch	●	●	●	●	●	●	●	–	1x 64 segment	8 ch	
XMC4500 Series																																																							
XMC4504-F100F512	–	●	●	LQFP-100	75	Cortex®-M4	120	–	●	●	2	12 ch	1	1	●	●	●	●	●	3.13 to 3.63	–40 to 85	512	●	128	4	●	●	–	120	4/4/18	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	–	–	–	●	6 ch	●	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
XMC4504-F100K512	–	●	●	LQFP-100	75	Cortex®-M4	120	–	●	●	2	12 ch	1	1	●	●	●	●	●	3.13 to 3.63	–40 to 125	512	●	128	4	●	●	–	120	4/4/18	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	–	–	–	●	6 ch	●	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
XMC4504-F144F512	–	●	●	LQFP-144	119	Cortex®-M4	120	–	●	●	2	12 ch	1	1	●	●	●	●	●	3.13 to 3.63	–40 to 85	512	●	128	4	●	●	–	120	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	–	–	–	●	6 ch	●	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
XMC4504-F144K512	–	●	●	LQFP-144	119	Cortex®-M4	120	–	●	●	2	12 ch	1	1	●	●	●	●	●	3.13 to 3.63	–40 to 125	512	●	128	4	●	●	–	120	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	–	–	–	●	6 ch	●	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
XMC4502-F100F768	–	●	●	LQFP-100	75	Cortex®-M4	120	–	●	●	2	12 ch	1	1	●	●	●	●	●	3.13 to 3.63	–40 to 85	768	●	160	4	●	●	–	120	4/4/18	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	–	3	●	●	6 ch	●	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
XMC4502-F100K768	–	●	●	LQFP-100	75	Cortex®-M4	120	–	●	●	2	12 ch	1	1	●	●	●	●	●	3.13 to 3.63	–40 to 125	768	●	160	4	●	●	–	120	4/4/18	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	–	3	●	●	6 ch	●	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
XMC4500-F100F768	–	●	●	LQFP-100	75	Cortex®-M4	120	–	●	●	2	12 ch	1	1	●	●	●	●	●	3.13 to 3.63	–40 to 85	768	●	160	4	●	●	–	120	4/4/18	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	●	3	●	●	6 ch	●	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
XMC4500-F100F1024	–	●	●	LQFP-100	75	Cortex®-M4	120	–	●	●	2	12 ch	1	1	●	●	●	●	●	3.13 to 3.63	–40 to 85	1024	●	160	4	●	●	–	120	4/4/18	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	●	3	●	●	6 ch	●	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
XMC4500-F100K768	–	●	●	LQFP-100	75	Cortex®-M4	120	–	●	●	2	12 ch	1	1	●	●	●	●	●	3.13 to 3.63	–40 to 125	768	●	160	4	●	●	–	120	4/4/18	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	●	3	●	●	6 ch	●	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
XMC4500-F100K1024	–	●	●	LQFP-100	75	Cortex®-M4	120	–	●	●	2	12 ch	1	1	●	●	●	●	●	3.13 to 3.63	–40 to 125	1024	●	160	4	●	●	–	120	4/4/18	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	●	3	●	●	6 ch	●	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
XMC4500-F144F768	–	●	●	LQFP-144	119	Cortex®-M4	120	–	●	●	2	12 ch	1	1	●	●	●	●	●	3.13 to 3.63	–40 to 85	768	●	160	4	●	●	–	120	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	●	3	●	●	6 ch	●	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
XMC4500-F144F1024	–	●	●	LQFP-144	119	Cortex®-M4	120	–	●	●	2	12 ch	1	1	●	●	●	●	●	3.13 to 3.63	–40 to 85	1024	●	160	4	●	●	–	120	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	●	3	●	●	6 ch	●	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
XMC4500-F144K768	–	●	●	LQFP-144	119	Cortex®-M4	120	–	●	●	2	12 ch	1	1	●	●	●	●	●	3.13 to 3.63	–40 to 125	768	●	160	4	●	●	–	120	4/4/26	2 ch	–</																							

32-bit XMC™ Microcontroller – XMC4000 family

Product type/partnumber	Markets			Package	GPIOs	Core		Co-processor			System							Debug		Supply voltage [V]	Operating temperature range T _A [°C]	Memory					Data/IP protection	Secure bootloader	Peripherals clock [MHz]	Analog			Timer/PWM						Communication												LED display	Capacitive touch		
	Automotive	Industrial	Consumer			Processor type	Core frequency [MHz]	CORDIC/DIV	DSP	FPU	ERU	DMA	MPU	CRC	PRNG	Watchdog	Real-Time Clock	SWD, SPD	JTAG, Trace			Flash	ECC	RAM	Cache	EEPROM emulation in flash				No. of 12-bit ADC/ No. of sample & hold/ No. of inputs	12-bit DAC	Comparator	CCU4	CCU8	HRPWM (150 ps)	ΔΣ Demodulator	POSIF	BCCU/LED	EtherCAT®	IEEE1588 Ethernet MAC	CAN 2.0B nodes	USB	SDIO/SD/MMC	USIC (Universal Serial Interface Controller)									External Bus Unit (EBU)	
																																												# channels	SPI	Dual SPI	Quad SPI	UART/SCI	IIC/I ² C	IIS/I ² S				LIN
XMC4700 Series																																																						
XMC4700-F100F1536	–	●	●	LQFP-100	75	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	3.13 to 3.63	–40 to 85	1536	●	276	8	●	●	–	144	4/4/18	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	●	6	●	●	6 ch	●	●	●	●	●	●	●	1x 64 segment	8 ch		
XMC4700-F100K1536	–	●	●	LQFP-100	75	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	3.13 to 3.63	–40 to 125	1536	●	276	8	●	●	–	144	4/4/18	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	●	6	●	●	6 ch	●	●	●	●	●	●	●	1x 64 segment	8 ch		
XMC4700-F100F2048	–	●	●	LQFP-100	75	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	3.13 to 3.63	–40 to 85	2048	●	352	8	●	●	–	144	4/4/18	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	●	6	●	●	6 ch	●	●	●	●	●	●	●	1x 64 segment	8 ch		
XMC4700-F100K2048	–	●	●	LQFP-100	75	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	3.13 to 3.63	–40 to 125	2048	●	352	8	●	●	–	144	4/4/18	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	●	6	●	●	6 ch	●	●	●	●	●	●	●	1x 64 segment	8 ch		
XMC4700-F144F1536	–	●	●	LQFP-144	119	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	3.13 to 3.63	–40 to 85	1536	●	276	8	●	●	–	144	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	●	6	●	●	6 ch	●	●	●	●	●	●	●	1x 64 segment	8 ch		
XMC4700-F144K1536	–	●	●	LQFP-144	119	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	3.13 to 3.63	40 to 125	1536	●	276	8	●	●	–	144	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	●	6	●	●	6 ch	●	●	●	●	●	●	●	1x 64 segment	8 ch		
XMC4700-F144F2048	–	●	●	LQFP-144	119	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	3.13 to 3.63	–40 to 85	2048	●	352	8	●	●	–	144	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	●	6	●	●	6 ch	●	●	●	●	●	●	●	1x 64 segment	8 ch		
XMC4700-F144K2048	–	●	●	LQFP-144	119	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	3.13 to 3.63	–40 to 125	2048	●	352	8	●	●	–	144	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	●	6	●	●	6 ch	●	●	●	●	●	●	●	1x 64 segment	8 ch		
XMC4700-E196F1536	–	●	●	LFBGA-196	155	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	3.13 to 3.63	–40 to 85	1536	●	276	8	●	●	–	144	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	●	6	●	●	6 ch	●	●	●	●	●	●	●	1x 64 segment	8 ch		
XMC4700-E196K1536	–	●	●	LFBGA-196	155	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	3.13 to 3.63	–40 to 125	1536	●	276	8	●	●	–	144	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	●	6	●	●	6 ch	●	●	●	●	●	●	●	1x 64 segment	8 ch		
XMC4700-E196F2048	–	●	●	LFBGA-196	155	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	3.13 to 3.63	–40 to 85	2048	●	352	8	●	●	–	144	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	●	6	●	●	6 ch	●	●	●	●	●	●	●	1x 64 segment	8 ch		
XMC4700-E196K2048	–	●	●	LFBGA-196	155	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	3.13 to 3.63	–40 to 125	2048	●	352	8	●	●	–	144	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	●	6	●	●	6 ch	●	●	●	●	●	●	●	1x 64 segment	8 ch		
XMC4800 Series																																																						
XMC4800-F100F1024	–	●	–	LQFP-100	75	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	3.13 to 3.63	–40 to 85	1024	●	200	8	●	●	–	144	4/4/18	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	●	●	6	●	●	6 ch	●	●	●	●	●	●	●	1x 64 segment	8 ch		
XMC4800-F100K1024	–	●	–	LQFP-100	75	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	3.13 to 3.63	–40 to 125	1024	●	200	8	●	●	–	144	4/4/18	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	●	●	6	●	●	6 ch	●	●	●	●	●	●	●	1x 64 segment	8 ch		
XMC4800-F100F1536	–	●	–	LQFP-100	75	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	3.13 to 3.63	–40 to 85	1536	●	276	8	●	●	–	144	4/4/18	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	●	●	6	●	●	6 ch	●	●	●	●	●	●	●	1x 64 segment	8 ch		
XMC4800-F100K1536	–	●	–	LQFP-100	75	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	3.13 to 3.63	–40 to 125	1536	●	276	8	●	●	–	144	4/4/18	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	●	●	6	●	●	6 ch	●	●	●	●	●	●	●	1x 64 segment	8 ch		
XMC4800-F100F2048	–	●	–	LQFP-100	75	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	3.13 to 3.63	–40 to 85	2048	●	352	8	●	●	–	144	4/4/18	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	●	●	6	●	●	6 ch	●	●	●	●	●	●	●	1x 64 segment	8 ch		
XMC4800-F100K2048	–	●	–	LQFP-100	75	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	3.13 to 3.63	–40 to 125	2048	●	352	8	●	●	–	144	4/4/18	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	●	●	6	●	●	6 ch	●	●	●	●	●	●	●	1x 64 segment	8 ch		
XMC4800-F144F1024	–	●	–	LQFP-144	119	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	3.13 to 3.63	–40 to 85	1024	●	200	8	●	●	–	144	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	●	●	6	●	●	6 ch	●	●	●	●	●	●	●	1x 64 segment	8 ch		
XMC4800-F144K1024	–	●	–	LQFP-144	119	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	3.13 to 3.63	–40 to 125	1024	●	200	8	●	●	–	144	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	●	●	6	●	●	6 ch	●	●	●	●	●	●	●	1x 64 segment	8 ch		
XMC4800-F144F1536	–	●	–	LQFP-144	119	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	3.13 to 3.63	–40 to 85	1536	●	276	8	●	●	–	144	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	●	●	6	●	●	6 ch	●	●	●	●	●	●	●	1x 64 segment	8 ch		
XMC4800-F144K1536	–	●	–	LQFP-144	119	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	3.13 to 3.63	–40 to 125	1536	●	276	8	●	●	–	144	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	●	●	6	●	●	6 ch	●	●	●	●	●	●	●	1x 64 segment	8 ch		
XMC4800-F144F2048	–	●	–	LQFP-144	119	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	3.13 to 3.63	–40 to 85	2048	●	352	8	●	●	–	144	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	●	●	6	●	●	6 ch	●	●	●	●	●	●	●	1x 64 segment	8 ch		
XMC4800-F144K2048	–	●	–	LQFP-144	119	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	3.13 to 3.63	–40 to 125	2048	●	352	8	●	●	–	144	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	●	●	6	●	●	6 ch	●	●	●	●	●	●	●	1x 64 segment	8 ch		
XMC4800-E196F1024	–	●	–	LFBGA-196	155	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	3.13 to 3.63	–40 to 85	1024	●	200	8	●	●	–	144	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	●	●	6	●	●	6 ch	●	●	●	●	●	●	●	1x 64 segment	8 ch		

32-bit XMC™ Microcontroller – XMC4000 family

Product type/partnumber	Markets			Package	GPIOs	Core		Co-processor			System						Debug		Supply voltage [V]	Operating temperature range T _A [°C]	Memory					Data/IP protection	Secure boot/loader	Peripherals clock [MHz]	Analog			Timer/PWM						Communication										LED display	Capacitive touch						
	Automotive	Industrial	Consumer			Processor type	Core frequency [MHz]	CORDIC/DIV	DSP	FPU	ERU	DMA	MPU	CRC	PRNG	Watchdog	Real-Time Clock	SWD, SPD			JTAG, Trace	Flash	ECC	RAM	Cache				EEPROM emulation	in flash	No. of 12-bit ADC/ No. of sample & hold/ No. of inputs	12-bit DAC	Comparator	CCU4	CCU8	HRPWM (150 ps)	ΔΣ Demodulator	POSIF	BCU/LED	EtherCAT®	IEEE1588 Ethernet MAC	CAN 2.0B nodes	USB	SDIO/SD/MMC	USIC (Universal Serial Interface Controller)								External Bus Unit (EBU)		
																																													# channels	SPI	Dual SPI			Quad SPI	UART/SCI	IIC/I ² C		IIS/I ² S	LIN
XMC4800 Series																																																							
XMC4800-E196K1024	–	●	–	LFBGA-196	155	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	●	3.13 to 3.63	–40 to 125	1024	●	200	8	●	●	–	144	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	●	●	6	●	●	6 ch	●	●	●	●	●	●	●	●	1x 64 segment	8 ch	
XMC4800-E196F1536	–	●	–	LFBGA-196	155	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	●	3.13 to 3.63	–40 to 85	1536	●	276	8	●	●	–	144	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	●	●	6	●	●	6 ch	●	●	●	●	●	●	●	●	1x 64 segment	8 ch	
XMC4800-E196K1536	–	●	–	LFBGA-196	155	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	●	3.13 to 3.63	–40 to 125	1536	●	276	8	●	●	–	144	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	●	●	6	●	●	6 ch	●	●	●	●	●	●	●	●	1x 64 segment	8 ch	
XMC4800-E196F2048	–	●	–	LFBGA-196	155	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	●	3.13 to 3.63	–40 to 85	2048	●	352	8	●	●	–	144	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	●	●	6	●	●	6 ch	●	●	●	●	●	●	●	●	1x 64 segment	8 ch	
XMC4800-E196K2048	–	●	–	LFBGA-196	155	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	●	3.13 to 3.63	–40 to125	2048	●	352	8	●	●	–	144	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	●	●	6	●	●	6 ch	●	●	●	●	●	●	●	●	1x 64 segment	8 ch	

- BCCU

= Brightness and Color Control Unit for LED lighting
- CCU

= Capture Compare Unit
- FPU

= Floating Point Unit
- MMC

= Multi Media Card
- POSIF

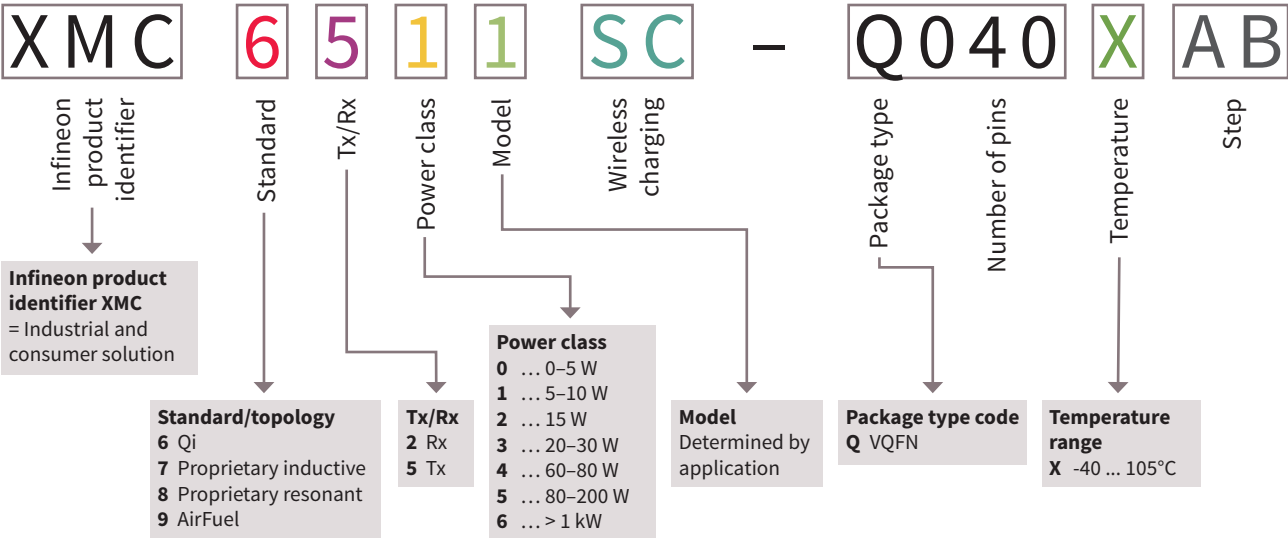
= Motor Position Interface
- SDIO

= SD Card Interface with Input/Output
- USIC

= UART/SCI, SPI, Dual-SPI, Quad-SPI, IIC/I²C, IIS/I²S, LIN



Wireless power controller



Wireless charging series

Product type/ partnumber	Automotive	Industrial	Consumer	Package	GPIOs	Topology	Power [W]	Transmitter	Receiver	Certification	CAN	NFC
XMC8201SC-Q024X	–	●	●	VQFN-24	–	Resonant	2.5	–	●	–	–	–
XMC8501SC-Q040X	–	●	●	VQFN-40	–	Resonant	2.5	●	–	–	CAN 2.0	SPI
XMC8231SC-Q024X	–	●	●	VQFN-24	–	Resonant	30	–	●	–	–	–
XMC8531SC-Q040X	–	●	●	VQFN-40	–	Resonant	30	●	–	–	CAN 2.0	SPI
XMC7201SC-Q024X	–	●	●	VQFN-24	–	Inductive	<5	–	●	–	–	–
XMC7501SC-Q040X	–	●	●	VQFN-40	–	Inductive	<5	●	–	–	CAN 2.0	SPI
XMC6511SC-Q040X	–	●	●	VQFN-40	–	Inductive	10	●	–	Qi-Certified	–	–
XMC6521SC-Q040X	–	●	●	VQFN-40	–	Inductive	15	●	–	Qi-Certified	–	–
XMC7231SC-Q024X	–	●	●	VQFN-24	–	Custom	30	–	●	–	–	–
XMC7531SC-Q040X	–	●	●	VQFN-40	–	Custom	30	●	–	–	–	–
XMC7234SC-Q040X	–	●	●	VQFN-41	–	Custom	30	–	●	–	–	–
XMC7533SC-Q040X	–	●	●	VQFN-42	–	Custom	30	●	–	–	–	–
XMC7241SC-Q024X	–	●	●	VQFN-43	–	Inductive	80	–	●	–	CAN 2.0	SPI
XMC7541SC-Q040X	–	●	●	VQFN-44	–	Inductive	80	●	–	–	CAN 2.0	SPI
SAK-TC212S-8F133SC	●	–	–	TQFP-80	–	Inductive	15	●	–	Qi-Certified	CAN FD	SPI

Industrial PSoC™ 4000

Product type/partnumber																																		
	Industrial	Consumer	CapSense	Package	# GPIOs	Processor type	Max. Operating frequency [MHz]	Dedicated ADC (# Max Resolution @ Sample rate)	JTAG and SI ID	Flash [KB]	EEPROM [KB]	SRAM [KB]	LCD direct drive	Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Continuous time blocks	# Dedicated comparators	# Dedicated timer/Counter/PWM blocks	# DMA channels	# Op Amps	# Serial communication blocks	# SIO	# Smart I/Os	# Universal analog blocks	# Universal digital blocks	# USB IO	Part family	PLL	USB (type)	Package carrier	
PSoC™ 4000 Series																																		
CY8C4013LQI-411	●	●	–	QFN	13	Cortex®-M0	16	–	0x0A431193	8	–	2	–	85	5.5	-40	1.7	–	–	1	1	–	–	1	–	–	–	–	–	–	–	–	Tray	
CY8C4013LQI-411T	●	●	–	QFN	13	Cortex®-M0	16	–	0x0A431193	8	–	2	–	85	5.5	-40	1.7	–	–	1	1	–	–	1	–	–	–	–	–	–	–	–	–	Reel
CY8C4013SXI-400	●	●	–	SOP	5	Cortex®-M0	16	–	0x0A401193	8	–	2	–	85	5.5	-40	1.7	–	–	–	1	–	–	1	–	–	–	–	–	–	–	–	–	Tube
CY8C4013SXI-400T	●	●	–	SOP	5	Cortex®-M0	16	–	0x0A401193	8	–	2	–	85	5.5	-40	1.7	–	–	–	1	–	–	1	–	–	–	–	–	–	–	–	–	Reel
CY8C4013SXI-410	●	●	–	SOP	5	Cortex®-M0	16	–	0x0A411193	8	–	2	–	85	5.5	-40	1.7	–	–	1	1	–	–	1	–	–	–	–	–	–	–	–	–	Tube
CY8C4013SXI-410T	●	●	–	SOP	5	Cortex®-M0	16	–	0x0A411193	8	–	2	–	85	5.5	-40	1.7	–	–	1	1	–	–	1	–	–	–	–	–	–	–	–	–	Reel
CY8C4013SXI-411	●	●	–	SOP	13	Cortex®-M0	16	–	0x0A421193	8	–	2	–	85	5.5	-40	1.7	–	–	1	1	–	–	1	–	–	–	–	–	–	–	–	–	Tube
CY8C4013SXI-411T	●	●	–	SOP	13	Cortex®-M0	16	–	0x0A421193	8	–	2	–	85	5.5	-40	1.7	–	–	1	1	–	–	1	–	–	–	–	–	–	–	–	–	Reel
CY8C4014FNI-421AT	●	●	●	WLCSP	13	Cortex®-M0	16	–	0x0A441193	16	–	2	–	85	5.5	-40	1.7	–	–	1	1	–	–	1	–	–	–	–	–	–	–	–	–	Reel
CY8C4014LQI-412	●	●	–	QFN	20	Cortex®-M0	16	–	0x0A471193	16	–	2	–	85	5.5	-40	1.7	–	–	1	1	–	–	1	–	–	–	–	–	–	–	–	–	Tray
CY8C4014LQI-412KT	●	●	–	QFN	20	Cortex®-M0	16	–	0x0A471193	16	–	2	–	85	5.5	-40	1.7	–	–	1	1	–	–	1	–	–	–	–	–	–	–	–	–	Tray
CY8C4014LQI-412T	●	●	–	QFN	20	Cortex®-M0	16	–	0x0A471193	16	–	2	–	85	5.5	-40	1.7	–	–	1	1	–	–	1	–	–	–	–	–	–	–	–	–	Reel
CY8C4014LQI-421	●	●	●	QFN	13	Cortex®-M0	16	–	0x0A461193	16	–	2	–	85	5.5	-40	1.7	–	–	1	1	–	–	1	–	–	–	–	–	–	–	–	–	Tray
CY8C4014LQI-421T	●	●	●	QFN	13	Cortex®-M0	16	–	0x0A461193	16	–	2	–	85	5.5	-40	1.7	–	–	1	1	–	–	1	–	–	–	–	–	–	–	–	–	Reel
CY8C4014LQI-422	●	●	●	QFN	20	Cortex®-M0	16	–	0x0A481193	16	–	2	–	85	5.5	-40	1.7	–	–	1	1	–	–	1	–	–	–	–	–	–	–	–	–	Tray
CY8C4014LQI-422KT	●	●	●	QFN	20	Cortex®-M0	16	–	0x0A481193	16	–	2	–	85	5.5	-40	1.7	–	–	1	1	–	–	1	–	–	–	–	–	–	–	–	–	Tray
CY8C4014LQI-422T	●	●	●	QFN	20	Cortex®-M0	16	–	0x0A481193	16	–	2	–	85	5.5	-40	1.7	–	–	1	1	–	–	1	–	–	–	–	–	–	–	–	–	Reel
CY8C4014LQIW-412	●	●	–	QFN	20	Cortex®-M0	16	–	0x0A471193	16	–	2	–	85	5.5	-40	1.7	–	–	1	1	–	–	1	–	–	–	–	–	–	–	–	–	Tray
CY8C4014LQIW-422	●	●	●	QFN	20	Cortex®-M0	16	–	0x0A481193	16	–	2	–	85	5.5	-40	1.7	–	–	1	1	–	–	1	–	–	–	–	–	–	–	–	–	Tray
CY8C4014PVI-412	●	●	–	SOP	20	Cortex®-M0	16	–	0x0A54119A	16	–	2	–	85	5.5	-40	1.7	–	–	1	1	–	–	1	–	–	–	–	–	–	–	–	–	Tube
CY8C4014PVI-422	●	●	●	SOP	20	Cortex®-M0	16	–	0x0A55119A	16	–	2	–	85	5.5	-40	1.7	–	–	1	1	–	–	1	–	–	–	–	–	–	–	–	–	Tube
CY8C4014SXI-420	●	●	●	SOP	5	Cortex®-M0	16	–	0x0A53119A	16	–	2	–	85	5.5	-40	1.7	–	–	1	1	–	–	1	–	–	–	–	–	–	–	–	–	Tube
CY8C4014SXI-420T	●	●	●	SOP	5	Cortex®-M0	16	–	0x0A53119A	16	–	2	–	85	5.5	-40	1.7	–	–	1	1	–	–	1	–	–	–	–	–	–	–	–	–	Reel
CY8C4014SXI-421	●	●	●	SOP	13	Cortex®-M0	16	–	0x0A441193	16	–	2	–	85	5.5	-40	1.7	–	–	1	1	–	–	1	–	–	–	–	–	–	–	–	–	Tube
CY8C4014SXI-421T	●	●	●	SOP	13	Cortex®-M0	16	–	0x0A441193	16	–	2	–	85	5.5	-40	1.7	–	–	1	1	–	–	1	–	–	–	–	–	–	–	–	–	Reel
CY8C4014SXIW-421	●	●	●	SOIC	13	Cortex®-M0	16	–	0x0A441193	16	–	2	–	85	5.5	-40	1.7	–	–	1	1	–	–	1	–	–	–	–	–	–	–	–	–	Tube

Industrial PSoC™ 4000

Product type/partnumber	Industrial	Consumer	CapSense	Package	# GPIOs	Processor type	Max. Operating frequency [MHz]	Dedicated ADC (# Max Resolution @ Sample rate)	JTAG and SI ID	Flash [KB]	EEPROM [KB]	SRAM [KB]	LCD direct drive	Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Continuous time blocks	# Dedicated comparators	# Dedicated timer/Counter/PWM blocks	# DMA channels	# Op Amps	# Serial communication blocks	# SIO	# Smart I/Os	# Universal analog blocks	# Universal digital blocks	# USB IO	Part family	PLL	USB (type)	Package carrier
PSoC™ 4000 DS-Series																																	
CY8C4045FNI-DS402T	●	●	–	WLCSP	21	Cortex®-M0	48	–	–	32	–	4	–	85	5.5	-40	1.7	–	–	2	4	8	–	3	–	8	–	–	–	–	–	–	Reel
CY8C4045PVI-DS402	●	●	–	SOP	24	Cortex®-M0	48	–	–	32	–	4	–	85	5.5	-40	1.7	–	–	2	4	8	–	3	–	8	–	–	–	–	–	–	Tube
PSoC™ 4000 S-Series																																	
CY8C4024AXI-S402	●	●	–	QFP	27	Cortex®-M0+	24	–	–	16		2	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	16	–	–	–	–	–	–	Tray
CY8C4024AXI-S412	●	●	●	QFP	27	Cortex®-M0+	24	–	–	16		2	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	16	–	–	–	–	–	–	Tray
CY8C4024AZI-S403	●	●	–	QFP	36	Cortex®-M0+	24	–	–	16		2	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	16	–	–	–	–	–	–	Tray
CY8C4024AZI-S403T	●	●	–	QFP	36	Cortex®-M0+	24	–	–	16		2	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	16	–	–	–	–	–	–	Reel
CY8C4024AZI-S413	●	●	●	QFP	36	Cortex®-M0+	24	–	–	16		2	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	16	–	–	–	–	–	–	Tray
CY8C4024AZI-S413T	●	●	●	QFP	36	Cortex®-M0+	24	–	–	16		2	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	16	–	–	–	–	–	–	Reel
CY8C4024AZQ-S413	●	●	●	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 1 msp/s)	–	16		2	●	105	5.5	-40	1.7	–	–	2	5	–	–	2	–	16	–	–	–	PSoC™ 4	–	–	Tray
CY8C4024FNI-S402	●	●	–	WLCSP	21	Cortex®-M0+	24	–	–	16		2	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	8	–	–	–	–	–	–	–
CY8C4024FNI-S402T	●	●	–	WLCSP	21	Cortex®-M0+	24	–	–	16		2	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	8	–	–	–	–	–	–	Reel
CY8C4024FNI-S412	●	●	●	WLCSP	21	Cortex®-M0+	24	–	–	16		2	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	8	–	–	–	–	–	–	–
CY8C4024FNI-S412T	●	●	●	WLCSP	21	Cortex®-M0+	24	–	–	16		2	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	8	–	–	–	–	–	–	Reel
CY8C4024LQI-S401	●	●	–	QFN	19	Cortex®-M0+	24	–	–	16		2	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	8	–	–	–	–	–	–	Tray
CY8C4024LQI-S401KT	●	●	–	QFN	19	Cortex®-M0+	24	–	–	16		2	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	8	–	–	–	–	–	–	Tray
CY8C4024LQI-S402	●	●	–	QFN	27	Cortex®-M0+	24	–	–	16		2	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	16	–	–	–	–	–	–	Tray
CY8C4024LQI-S403	●	●	–	QFN	34	Cortex®-M0+	24	–	0x1914	16		2	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	16	–	–	–	–	–	–	Tray
CY8C4024LQI-S403T	●	●	–	QFN	34	Cortex®-M0+	24	–	0x1914	16		2	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	16	–	–	–	–	–	–	Reel
CY8C4024LQI-S411	●	●	●	QFN	19	Cortex®-M0+	24	–	–	16		2	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	8	–	–	–	–	–	–	Tray
CY8C4024LQI-S412	●	●	●	QFN	27	Cortex®-M0+	24	–	–	16		2	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	16	–	–	–	–	–	–	Tray
CY8C4024LQI-S412T	●	●	●	QFN	27	Cortex®-M0+	24	–	–	16		2	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	16	–	–	–	–	–	–	Reel
CY8C4024LQI-S413	●	●	●	QFN	34	Cortex®-M0+	24	–	0x1915	16		2	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	16	–	–	–	–	–	–	Tray
CY8C4024LQI-S413T	●	●	●	QFN	34	Cortex®-M0+	24	–	0x1915	16		2	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	16	–	–	–	–	–	–	Reel
CY8C4025AXI-S402	●	●	–	QFP	27	Cortex®-M0+	24	–	–	32		4	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	16	–	–	–	–	–	–	Tray
CY8C4025AXI-S412	●	●	●	QFP	27	Cortex®-M0+	24	–	–	32		4	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	16	–	–	–	–	–	–	Tray
CY8C4025AZI-S403	●	●	–	QFP	36	Cortex®-M0+	24	–	–	32		4	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	16	–	–	–	–	–	–	Tray
CY8C4025AZI-S403T	●	●	–	QFP	36	Cortex®-M0+	24	–	–	32		4	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	16	–	–	–	–	–	–	Reel

Industrial PSoC™ 4000

Product type/partnumber		Industrial	Consumer	CapSense		Package	# GPIOs	Processor type	Max. Operating frequency [MHz]	Dedicated ADC (# Max Resolution @ Sample rate)	JTAG and SI ID	Flash [KB]	EEPROM [KB]	SRAM [KB]	LCD direct drive	Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Continuous time blocks	# Dedicated comparators	# Dedicated timer/Counter/PWM blocks	# DMA channels	# Op Amps	# Serial communication blocks	# SIO	# Smart I/Os	# Universal analog blocks	# Universal digital blocks	# USB IO	Part family	PLL	USB (type)	Package carrier		
PSoC™ 4000 S-Series																																					
CY8C4025AZI-S413		●	●	●		QFP	36	Cortex®-M0+	24	–	–	32	–	4	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	16	–	–	–	–	–	–	Tray		
CY8C4025AZI-S413T		●	●	●		QFP	36	Cortex®-M0+	24	–	–	32	–	4	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	16	–	–	–	–	–	–	Reel		
CY8C4025AZQ-S403		●	●	–		QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 1 msp/s)	–	32	–	4	●	105	5.5	-40	1.7	–	–	2	5	–	–	2	–	16	–	–	–	PSoC™ 4	–	–	Tray		
CY8C4025AZQ-S413		●	●	●		QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 1 msp/s)	–	32	–	4	●	105	5.5	-40	1.7	–	–	2	5	–	–	2	–	16	–	–	–	PSoC™ 4	–	–	Tray		
CY8C4025FNI-S402		●	●	–		WLCSP	21	Cortex®-M0+	24	–	–	32	–	4	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	8	–	–	–	–	–	–	–		
CY8C4025FNI-S402T		●	●	–		WLCSP	21	Cortex®-M0+	24	–	–	32	–	4	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	8	–	–	–	–	–	–	Reel		
CY8C4025FNI-S412		●	●	●		WLCSP	21	Cortex®-M0+	24	–	–	32	–	4	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	8	–	–	–	–	–	–	–		
CY8C4025FNI-S412T		●	●	●		WLCSP	21	Cortex®-M0+	24	–	–	32	–	4	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	8	–	–	–	–	–	–	Reel		
CY8C4025LQI-S401		●	●	–		QFN	19	Cortex®-M0+	24	–	–	32	–	4	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	8	–	–	–	–	–	–	Tray		
CY8C4025LQI-S402		●	●	–		QFN	27	Cortex®-M0+	24	–	–	32	–	4	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	16	–	–	–	–	–	–	Tray		
CY8C4025LQI-S402T		●	●	–		QFN	27	Cortex®-M0+	24	–	–	32	–	4	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	16	–	–	–	–	–	–	Reel		
CY8C4025LQI-S403		●	●	–		QFN	34	Cortex®-M0+	24	–	–	32	–	4	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	16	–	–	–	–	–	–	Tray		
CY8C4025LQI-S411		●	●	●		QFN	19	Cortex®-M0+	24	–	–	32	–	4	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	8	–	–	–	–	–	–	Tray		
CY8C4025LQI-S412		●	●	●		QFN	27	Cortex®-M0+	24	–	–	32	–	4	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	16	–	–	–	–	–	–	Tray		
CY8C4025LQI-S412T		●	●	●		QFN	27	Cortex®-M0+	24	–	–	32	–	4	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	16	–	–	–	–	–	–	Reel		
CY8C4025LQI-S413		●	●	●		QFN	34	Cortex®-M0+	24	–	–	32	–	4	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	16	–	–	–	–	–	–	Tray		
CY8C4045AZI-S413		●	●	●		QFP	36	Cortex®-M0+	48	–	–	32	–	4	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	16	–	–	–	–	–	–	Tray		
CY8C4045AZI-S413T		●	●	●		QFP	36	Cortex®-M0+	48	–	–	32	–	4	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	16	–	–	–	–	–	–	Reel		
CY8C4045FNI-S412		●	●	●		WLCSP	21	Cortex®-M0+	48	–	–	32	–	4	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	8	–	–	–	–	–	–	–		
CY8C4045FNI-S412T		●	●	●		WLCSP	21	Cortex®-M0+	48	–	–	32	–	4	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	8	–	–	–	–	–	–	Reel		
CY8C4045LQI-S411		●	●	●		QFN	19	Cortex®-M0+	48	–	–	32	–	4	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	8	–	–	–	–	–	–	Tray		
CY8C4045LQI-S412		●	●	●		QFN	27	Cortex®-M0+	48	–	–	32	–	4	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	16	–	–	–	–	–	–	Tray		
CY8C4045LQI-S412T		●	●	●		QFN	27	Cortex®-M0+	48	–	–	32	–	4	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	16	–	–	–	–	–	–	Reel		
CY8C4045LQI-S413		●	●	●		QFN	34	Cortex®-M0+	48	–	–	32	–	4	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	16	–	–	–	–	–	–	Tray		

Industrial PSoC™ 4100

Product type/partnumber	Product family		Package type	Pin count	Processors	Max. Operating frequency [MHz]	Max. Resolution @ Sample rate	Flash (KB)	Flash [KB]	EEPROM [KB]	SRAM [KB]	LCD direct drive	Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Continuous time blocks	# Dedicated comparators	# Dedicated timer/Counter/PWM blocks	# DMA channels	# Op Amps	# Serial communication blocks	# SIO	# Smart I/Os	# Universal analog blocks	# Universal digital blocks	# USB IO	Part family	PLL	USB (type)	Package carrier	
PSoC™ 4100 Series																																	
CY8C4124AXI-443	●	●	●	QFP	36	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x041A1193	16	4	4	●	85	5.5	-40	1.7	–	2	2	4	–	2	2	–	–	–	–	–	–	–	Tray	
CY8C4124AXI-443T	●	●	●	QFP	36	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x041A1193	16	4	4	●	85	5.5	-40	1.7	–	2	2	4	–	2	2	–	–	–	–	–	–	–	–	Reel
CY8C4124AXI5-443	●	●	●	QFP	36	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x041A1193	16	4	4	●	85	5.5	-40	1.7	–	2	2	4	–	2	2	–	–	–	–	–	–	–	–	Tray
CY8C4124AXQ-443	●	●	●	QFP	36	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x041A1193	16	4	4	●	105	5.5	-40	1.7	–	2	2	4	–	2	2	–	–	–	–	–	–	–	–	Tray
CY8C4124AZI-443	●	●	●	QFP	36	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x041A1193	16	4	4	●	85	5.5	-40	1.7	–	2	2	4	–	2	2	–	–	–	–	–	–	–	–	Tray
CY8C4124LQI-443	●	●	●	QFN	34	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x041C1193	16	4	4	●	85	5.5	-40	1.7	–	2	2	4	–	2	2	–	–	–	–	–	–	–	–	Tray
CY8C4124LQI-443T	●	●	●	QFN	34	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x041C1193	16	4	4	●	85	5.5	-40	1.7	–	2	2	4	–	2	2	–	–	–	–	–	–	–	–	Reel
CY8C4124LQQ-443	●	●	●	QFN	34	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x04161193	16	4	4	●	105	5.5	-40	1.7	–	2	2	4	–	2	2	–	–	–	–	–	–	–	–	Tray
CY8C4124PVI-432	●	●	–	SOP	24	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x04101193	16	4	4	–	85	5.5	-40	1.7	–	1	2	4	–	1	2	–	–	–	–	–	–	–	–	Tube
CY8C4124PVI-432T	●	●	–	SOP	24	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x04101193	16	4	4	–	85	5.5	-40	1.7	–	1	2	4	–	1	2	–	–	–	–	–	–	–	–	Reel
CY8C4124PVI-442	●	●	●	SOP	24	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x04111193	16	4	4	●	85	5.5	-40	1.7	–	1	2	4	–	1	2	–	–	–	–	–	–	–	–	Tube
CY8C4124PVI-442T	●	●	●	SOP	24	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x04111193	16	4	4	●	85	5.5	-40	1.7	–	1	2	4	–	1	2	–	–	–	–	–	–	–	–	Reel
CY8C4124PVI5-442	●	●	●	SOP	24	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x04111193	16	4	4	●	85	5.5	-40	1.7	–	1	2	4	–	1	2	–	–	–	–	–	–	–	–	Tube
CY8C4124PVQ-432	●	●	–	SOP	24	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x04101193	16	4	4	–	105	5.5	-40	1.7	–	1	2	4	–	1	2	–	–	–	–	–	–	–	–	Tube
CY8C4124PVQ-442	●	●	●	SOP	24	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x04111193	16	4	4	●	105	5.5	-40	1.7	–	1	2	4	–	1	2	–	–	–	–	–	–	–	–	Tube
CY8C4125AXI-473	●	●	–	QFP	36	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x041B1193	32	4	4	–	85	5.5	-40	1.7	–	2	2	4	–	2	2	–	–	–	–	–	–	–	–	Tray
CY8C4125AXI-483	●	●	●	QFP	36	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x04161193	32	–	4	●	85	5.5	-40	1.7	–	1	2	4	–	2	2	–	–	–	–	–	–	–	–	Tray
CY8C4125AXI-483T	●	●	●	QFP	36	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x04161193	32	–	4	●	85	5.5	-40	1.7	–	1	2	4	–	2	2	–	–	–	–	–	–	–	–	Reel
CY8C4125AXQ-473	●	●	–	QFP	36	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x041B1193	32	4	4	–	105	5.5	-40	1.7	–	2	2	4	–	2	2	–	–	–	–	–	–	–	–	Tray
CY8C4125AXQ-483	●	●	●	QFP	36	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x041C1193	32	–	4	●	105	5.5	-40	1.7	–	1	2	4	–	2	2	–	–	–	–	–	–	–	–	Tray
CY8C4125AZI-473	●	●	–	QFP	36	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x041B1193	32	4	4	–	85	5.5	-40	1.7	–	2	2	4	–	2	2	–	–	–	–	–	–	–	–	Tray
CY8C4125AZI-483	●	●	●	QFP	36	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x04261193	32	4	4	●	85	5.5	-40	1.7	–	1	2	4	–	2	2	–	–	–	–	–	–	–	–	Tray
CY8C4125LQI-483	●	●	●	QFN	34	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x04171193	32	–	4	●	85	5.5	-40	1.7	–	2	2	4	–	2	2	–	–	–	–	–	–	–	–	Tray
CY8C4125LQI-483T	●	●	●	QFN	34	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x04171193	32	–	4	●	85	5.5	-40	1.7	–	2	2	4	–	2	2	–	–	–	–	–	–	–	–	Reel
CY8C4125LQQ-483	●	●	●	QFN	34	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x04171193	32	–	4	●	105	5.5	-40	1.7	–	2	2	4	–	2	2	–	–	–	–	–	–	–	–	Tray
CY8C4125PVI-482	●	●	●	SOP	24	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x04121193	32	–	4	●	85	5.5	-40	1.7	–	1	2	4	–	1	2	–	–	–	–	–	–	–	–	Tube
CY8C4125PVI-482T	●	●	●	SOP	24	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x04121193	32	–	4	●	85	5.5	-40	1.7	–	1	2	4	–	1	2	–	–	–	–	–	–	–	–	Reel
CY8C4125PVQ-482	●	●	●	SOP	24	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x04121193	32	–	4	●	105	5.5	-40	1.7	–	1	2	4	–	1	2	–	–	–	–	–	–	–	–	Tube

Industrial PSoC™ 4100

Product type/partnumber	PSoc™ 4100 S-Series																																	
	Industrial	Consumer	CapSense	Package	# GPIOs	Processor type	Max. Operating frequency [MHz]	Dedicated ADC (# Max Resolution @ Sample rate)	JTAG and SI ID	Flash [KB]	EEPROM [KB]	SRAM [KB]	LCD direct drive	Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Continuous time blocks	# Dedicated comparators	# Dedicated timer/Counter/PWM blocks	# DMA channels	# Op Amps	# Serial communication blocks	# SIO	# Smart I/Os	# Universal analog blocks	# Universal digital blocks	# USB IO	Part family	PLL	USB (type)	Package carrier	
CY8C4125LQI-S413	●	●	●	QFN	34	Cortex®-M0+	24	–	–	32	–	4	●	85	5.5	-40	1.7	–	1	2	5	–	2	2	–	16	–	–	–	–	–	–	–	Tray
CY8C4125LQI-S413KG	●	●	●	QFN	34	Cortex®-M0+	24	–	–	32	–	4	●	85	5.5	-40	1.7	–	1	2	5	–	2	2	–	16	–	–	–	–	–	–	–	Tray
CY8C4125LQI-S413T	●	●	●	QFN	34	Cortex®-M0+	24	–	–	32	–	4	●	85	5.5	-40	1.7	–	1	2	5	–	2	2	–	16	–	–	–	–	–	–	–	Reel
CY8C4125LQI-S422	●	●	–	QFN	27	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksp/s)	–	32	–	4	●	85	5.5	-40	1.7	–	1	2	5	–	2	2	–	16	–	–	–	–	–	–	–	Tray
CY8C4125LQI-S422T	●	●	–	QFN	27	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksp/s)	–	32	–	4	●	85	5.5	-40	1.7	–	1	2	5	–	2	2	–	16	–	–	–	–	–	–	–	Reel
CY8C4125LQI-S423	●	●	–	QFN	34	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksp/s)	–	32	–	4	●	85	5.5	-40	1.7	–	1	2	5	–	2	2	–	16	–	–	–	–	–	–	–	Tray
CY8C4125LQI-S423T	●	●	–	QFN	34	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksp/s)	–	32	–	4	●	85	5.5	-40	1.7	–	1	2	5	–	2	2	–	16	–	–	–	–	–	–	–	Reel
CY8C4125LQI-S432	●	●	●	QFN	27	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksp/s)	–	32	–	4	●	85	5.5	-40	1.7	–	1	2	5	–	2	2	–	16	–	–	–	–	–	–	–	Tray
CY8C4125LQI-S432T	●	●	●	QFN	27	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksp/s)	–	32	–	4	●	85	5.5	-40	1.7	–	1	2	5	–	2	2	–	16	–	–	–	–	–	–	–	Reel
CY8C4125LQI-S433	●	●	●	QFN	34	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksp/s)	–	32	–	4	●	85	5.5	-40	1.7	–	1	2	5	–	2	2	–	16	–	–	–	–	–	–	–	Tray
CY8C4125LQI-S433T	●	●	●	QFN	34	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksp/s)	–	32	–	4	●	85	5.5	-40	1.7	–	1	2	5	–	2	2	–	16	–	–	–	–	–	–	–	Reel
CY8C4125LQQ-S432	●	●	●	QFN	27	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksp/s)	–	32	–	4	●	105	5.5	-40	1.7	–	1	2	5	–	2	2	–	16	–	–	–	PSoc™ 4	–	–	–	Tray
CY8C4126AXI-S423	●	●	–	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksp/s)	–	64	–	8	●	85	5.5	-40	1.7	–	1	2	5	–	2	3	–	16	–	–	–	–	–	–	–	Tray
CY8C4126AXI-S433	●	●	●	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksp/s)	–	64	–	8	●	85	5.5	-40	1.7	–	1	2	5	–	2	3	–	16	–	–	–	–	–	–	–	Tray
CY8C4126AXI-S443	●	●	–	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksp/s)	–	64	–	8	●	85	5.5	-40	1.7	–	1	2	8	8	2	4	–	–	–	–	–	–	–	–	–	Tray
CY8C4126AXI-S445	●	●	–	FP	54	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksp/s)	–	64	–	8	●	85	5.5	-40	1.7	–	1	2	8	8	2	4	–	–	–	–	–	–	–	–	–	Tray
CY8C4126AXI-S453	●	●	●	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksp/s)	–	64	–	8	●	85	5.5	-40	1.7	–	1	2	8	8	2	4	–	–	–	–	–	–	–	–	–	Tray
CY8C4126AXI-S455	●	●	●	FP	54	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksp/s)	–	64	–	8	●	85	5.5	-40	1.7	–	1	2	8	8	2	4	–	–	–	–	–	–	–	–	–	Tray
CY8C4126AXQ-S433	●	●	●	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksp/s)	–	64	–	8	●	105	5.5	-40	1.7	–	1	2	5	–	2	3	–	16	–	–	–	PSoc™ 4	–	–	–	Tray
CY8C4126AZI-S423	●	●	–	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksp/s)	–	64	–	8	●	85	5.5	-40	1.7	–	1	2	5	–	2	3	–	16	–	–	–	–	–	–	–	Tray
CY8C4126AZI-S423T	●	●	–	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksp/s)	–	64	–	8	●	85	5.5	-40	1.7	–	1	2	5	–	2	3	–	16	–	–	–	–	–	–	–	Reel
CY8C4126AZI-S433	●	●	●	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksp/s)	–	64	–	8	●	85	5.5	-40	1.7	–	1	2	5	–	2	3	–	16	–	–	–	–	–	–	–	Tray
CY8C4126AZI-S433T	●	●	●	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksp/s)	–	64	–	8	●	85	5.5	-40	1.7	–	1	2	5	–	2	3	–	16	–	–	–	–	–	–	–	Reel
CY8C4126AZI-S445	●	●	–	FP	54	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksp/s)	–	64	–	8	●	85	5.5	-40	1.7	–	1	2	8	8	2	4	–	–	–	–	–	–	–	–	–	Tray
CY8C4126AZI-S455	●	●	●	FP	54	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksp/s)	–	64	–	8	●	85	5.5	-40	1.7	–	1	2	8	8	2	4	–	–	–	–	–	–	–	–	–	Tray
CY8C4126AZQ-S423	●	●	–	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksp/s)	–	64	–	8	●	105	5.5	-40	1.7	–	1	2	5	–	2	3	–	16	–	–	–	–	–	–	–	Tray
CY8C4126AZQ-S433	●	●	●	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksp/s)	–	64	–	8	●	105	5.5	-40	1.7	–	1	2	5	–	2	3	–	16	–	–	–	–	–	–	–	Tray
CY8C4127AXI-S443	●	●	–	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksp/s)	–	128	–	16	●	85	5.5	-40	1.7	–	1	2	8	8	2	4	–	–	–	–	–	–	–	–	–	Tray

Industrial PSoC™ 4100

Product type/partnumber																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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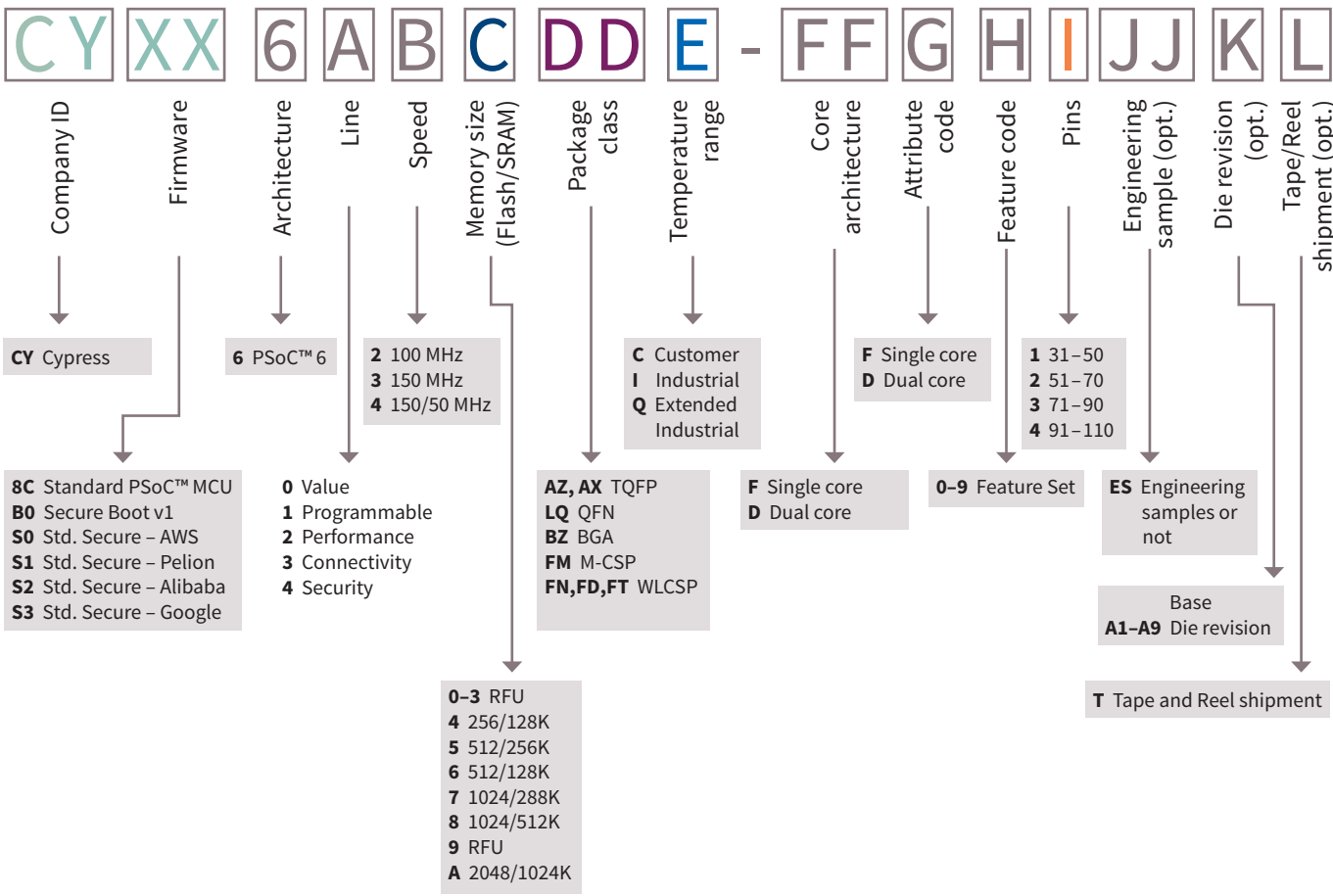
Industrial PSoC™ 4200

Product type/part number				Industrial	Consumer	CapSense	Package	# GPIOs	Processor type	Max. Operating frequency [MHz]	Dedicated ADC (# Max Resolution @ Sample rate)	JTAG and SI ID	Flash [KB]	EEPROM [KB]	SRAM [KB]	LCD direct drive	Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Continuous time blocks	# Dedicated comparators	# Dedicated timer/Counter/PWM blocks	# DMA channels	# Op Amps	# Serial communication blocks	# SIO	# Smart I/Os	# Universal analog blocks	# Universal digital blocks	# USB IO	Part family	PLL	USB (type)	Package carrier		
PSoC™ 4200 Series																																						
CY8C4244AXQ-443	●	●	●	QFP	36	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x04FA1193	16	4	4	●	105	5.5	-40	1.7	-	2	2	4	-	2	2	-	-	-	2	-	-	-	-	-	-	-	Tray		
CY8C4244AZI-443	●	●	●	QFP	36	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x04DA1193	16	4	4	●	85	5.5	-40	1.7	-	2	2	4	-	2	2	-	-	-	2	-	-	-	-	-	-	-	Tray		
CY8C4244FNI-443T	●	●	●	WLCSP	31	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	-	16	4	4	●	85	5.5	-40	1.7	-	1	2	4	-	2	2	-	-	-	2	-	-	-	-	-	-	-	Reel		
CY8C4244LQI-443	●	●	●	QFN	34	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x04F61193	16	4	4	●	85	5.5	-40	1.7	-	2	2	4	-	2	2	-	-	-	2	-	-	-	-	-	-	-	Tray		
CY8C4244LQ-443	●	●	●	QFN	34	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x04F61193	16	4	4	●	105	5.5	-40	1.7	-	2	2	4	-	2	2	-	-	-	2	-	-	-	-	-	-	-	Tray		
CY8C4244PVI-442	●	●	●	SOP	24	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x04F11193	16	4	4	●	85	5.5	-40	1.7	-	1	2	4	-	1	2	-	-	-	2	-	-	-	-	-	-	-	Tube		
CY8C4244PVQ-432	●	●	-	SOP	24	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x04F01193	16	4	4	-	105	5.5	-40	1.7	-	1	2	4	-	1	2	-	-	-	2	-	-	-	-	-	-	-	Tube		
CY8C4244PVQ-442	●	●	●	SOP	24	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x04F11193	16	4	4	●	105	5.5	-40	1.7	-	1	2	4	-	1	2	-	-	-	2	-	-	-	-	-	-	-	Tube		
CY8C4245AXI-473	●	●	-	QFP	36	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x04FB1193	32	4	4	-	85	5.5	-40	1.7	-	2	2	4	-	2	2	-	-	-	4	-	-	-	-	-	-	-	Tray		
CY8C4245AXI-483	●	●	●	QFP	36	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x04C81193	32	-	4	●	85	5.5	-40	1.7	-	2	2	4	-	2	2	-	-	-	4	-	-	-	-	-	-	-	Tray		
CY8C4245AXQ-473	●	●	-	QFP	36	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x04FB1193	32	4	4	-	105	5.5	-40	1.7	-	2	2	4	-	2	2	-	-	-	4	-	-	-	-	-	-	-	Tray		
CY8C4245AXQ-483	●	●	●	QFP	36	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x04C81193	32	-	4	●	105	5.5	-40	1.7	-	2	2	4	-	2	2	-	-	-	4	-	-	-	-	-	-	-	Tray		
CY8C4245AZI-473	●	●	-	QFP	36	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x04DB1193	32	4	4	-	85	5.5	-40	1.7	-	2	2	4	-	2	2	-	-	-	4	-	-	-	-	-	-	-	Tray		
CY8C4245AZI-483	●	●	●	QFP	36	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x04C81193	32	-	4	●	85	5.5	-40	1.7	-	2	2	4	-	2	2	-	-	-	4	-	-	-	-	-	-	-	Tray		
CY8C4245FNI-483T	●	●	●	WLCSP	34	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x04E81193	32	-	4	●	85	5.5	-40	1.7	-	2	2	4	-	2	2	-	-	-	4	-	-	-	-	-	-	-	Reel		
CY8C4245LQI-483	●	●	●	QFN	34	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x04B61193	32	-	4	●	85	5.5	-40	1.7	-	2	2	4	-	2	2	-	-	-	4	-	-	-	-	-	-	-	Tray		
CY8C4245LQI-483T	●	●	●	QFN	34	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x04B61193	32	-	4	●	85	5.5	-40	1.7	-	2	2	4	-	2	2	-	-	-	4	-	-	-	-	-	-	-	Reel		
CY8C4245LQ-483	●	●	●	QFN	34	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x04B61193	32	-	4	●	105	5.5	-40	1.7	-	2	2	4	-	2	2	-	-	-	4	-	-	-	-	-	-	-	Tray		
CY8C4245PVI-482	●	●	●	SOP	24	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x04A61193	32	-	4	●	85	5.5	-40	1.7	-	1	2	4	-	1	2	-	-	-	4	-	-	-	-	-	-	-	Tube		
CY8C4245PVQ-482	●	●	●	SOP	24	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x04A61193	32	-	4	●	105	5.5	-40	1.7	-	1	2	4	-	1	2	-	-	-	4	-	-	-	-	-	-	-	Tube		
PSoC™ 4200 DS-Series																																						
CY8C4245FNI-DS402T	●	●	-	WLCSP	21	Cortex®-M0	48	-	-	-	32	-	4	-	85	5.5	-40	1.7	-	-	2	4	8	-	3	-	-	-	4	-	-	-	-	-	-	-	Reel	
CY8C4246FNI-DS402T	●	●	-	WLCSP	21	Cortex®-M0	48	-	-	-	64	-	8	-	85	5.5	-40	1.7	-	-	2	4	8	-	3	-	-	-	4	-	-	-	-	-	-	-	Reel	

Industrial PSoC™ 4200

Product type/part number		Industrial	Consumer	CapSense	Package	# GPIOs	Processor type	Max. Operating frequency [MHz]	Dedicated ADC (# Max Resolution @ Sample rate)	JTAG and SI ID	Flash [KB]	EEPROM [KB]	SRAM [KB]	LCD direct drive	Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Continuous time blocks	# Dedicated comparators	# Dedicated timer/Counter/PWM blocks	# DMA channels	# Op Amps	# Serial communication blocks	# SIO	# Smart I/Os	# Universal analog blocks	# Universal digital blocks	# USB IO	Part family	PLL	USB (type)	Package carrier
PSoC™ 4200 L-Series																																		
CY8C4246AZI-L423		●	●	●	QFP	38	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x100211A0	64		8	●	85	5.5	-40	1.7	–	1	2	8	32	2	3	2	–	–	8	–	–	●	–	Tray
CY8C4246AZI-L423T		●	●	●	QFP	38	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x100211A0	64		8	●	85	5.5	-40	1.7	–	1	2	8	32	2	3	2	–	–	8	–	–	●	–	Reel
CY8C4246AZI-L433		●	●	–	QFP	38	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x100011A0	64		8	–	85	5.5	-40	1.7	–	1	2	8	32	2	3	2	–	–	8	2	–	●	USB 2.0 full-speed client contr.	Tray
CY8C4246AZI-L433T		●	●	–	QFP	38	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x100011A0	64	–	8	–	85	5.5	-40	1.7	–	1	2	8	32	2	3	2	–	–	8	2	–	●	USB 2.0 full-speed client contr.	Reel
CY8C4246AZI-L435		●	●	–	FP	53	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x100111A0	64	–	8	–	85	5.5	-40	1.7	–	1	2	8	32	2	4	2	–	–	8	2	–	●	USB 2.0 full-speed client contr.	Tray
CY8C4246AZI-L445		●	●	●	FP	53	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x100311A0	64	–	8	●	85	5.5	-40	1.7	–	1	2	8	32	2	4	2	–	–	8	2	–	●	USB 2.0 full-speed client contr.	Tray
CY8C4246LTI-L445		●	●	●	QFN	57	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x100411A0	64	–	8	●	85	5.5	-40	1.7	–	1	2	8	32	2	4	2	–	–	8	2	–	●	USB 2.0 full-speed client contr.	Tray
CY8C4247AZI-L423		●	●	●	QFP	38	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x100511A0	128	–	16	●	85	5.5	-40	1.7	–	1	2	8	32	2	3	2	–	–	8	–	–	●	–	Tray
CY8C4247AZI-L423T		●	●	●	QFP	38	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x100511A0	128	–	16	●	85	5.5	-40	1.7	–	1	2	8	32	2	3	2	–	–	8	–	–	●	–	Reel
CY8C4247AZI-L433		●	●	–	QFP	38	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x101511A0	128	–	16	–	85	5.5	-40	1.7	–	1	2	8	32	2	3	2	–	–	8	2	–	●	USB 2.0 full-speed client contr.	Tray
CY8C4247AZI-L433T		●	●	–	QFP	38	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x101511A0	128	–	16	–	85	5.5	-40	1.7	–	1	2	8	32	2	3	2	–	–	8	2	–	●	USB 2.0 full-speed client contr.	Reel
CY8C4247AZI-L445		●	●	●	FP	53	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x100611A0	128	–	16	●	85	5.5	-40	1.7	–	1	2	8	32	2	4	2	–	–	8	2	–	●	USB 2.0 full-speed client contr.	Tray
CY8C4247AZI-L475		●	●	●	FP	53	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x100811A0	128	–	16	–	85	5.5	-40	1.7	–	2	2	8	32	4	4	2	–	–	8	2	–	●	USB 2.0 full-speed client contr.	Tray
CY8C4247AZI-L485		●	●	●	FP	53	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x100B11A0	128	–	16	●	85	5.5	-40	1.7	2	2	2	8	32	4	4	2	–	–	8	2	–	●	USB 2.0 full-speed client contr.	Tray
CY8C4247BZI-L479		●	●	●	BGA	98	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x100A11A0	128	–	16	–	85	5.5	-40	1.7	–	4	2	8	32	4	2	2	–	–	8	2	–	●	USB 2.0 full-speed client contr.	Tray
CY8C4247BZI-L479T		●	●	●	BGA	98	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x100A11A0	128	–	16	–	85	5.5	-40	1.7	–	4	2	8	32	4	2	2	–	–	8	2	–	●	USB 2.0 full-speed client contr.	Reel
CY8C4247BZI-L489		●	●	●	BGA	98	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x100D11A0	128	–	16	●	85	5.5	-40	1.7	2	4	2	8	32	4	2	2	–	–	8	2	–	●	USB 2.0 full-speed client contr.	Tray
CY8C4247LTI-L445		●	●	●	QFN	57	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x100711A0	128	–	16	●	85	5.5	-40	1.7	–	1	2	8	32	2	4	2	–	–	8	2	–	●	USB 2.0 full-speed client contr.	Tray
CY8C4247LTI-L475		●	●	●	QFN	57	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x100911A0	128	–	16	–	85	5.5	-40	1.7	–	2	2	8	32	4	4	2	–	–	8	2	–	●	USB 2.0 full-speed client contr.	Tray
CY8C4247LTI-L485		●	●	●	QFN	57	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x100C11A0	128	–	16	●	85	5.5	-40	1.7	2	2	2	8	32	4	4	2	–	–	8	2	–	●	USB 2.0 full-speed client contr.	Tray
CY8C4248AZI-L475		●	●	●	FP	53	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x100E11A0	256	–	32	–	85	5.5	-40	1.7	–	2	2	8	32	4	4	2	–	–	8	2	–	●	USB 2.0 full-speed client contr.	Tray
CY8C4248AZI-L485		●	●	●	FP	53	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x101111A0	256	–	32	●	85	5.5	-40	1.7	2	2	2	8	32	4	4	2	–	–	8	2	–	●	USB 2.0 full-speed client contr.	Tray
CY8C4248BZI-L469		●	●	–	BGA	98	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x101711A0	256	–	32	●	85	5.5	-40	1.7	–	4	2	8	32	4	4	2	–	–	8	–	–	●	–	Tray
CY8C4248BZI-L479		●	●	●	BGA	98	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x101011A0	256	–	32	–	85	5.5	-40	1.7	–	4	2	8	32	4	2	2	–	–	8	2	–	●	USB 2.0 full-speed client contr.	Tray
CY8C4248BZI-L489		●	●	●	BGA	98	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x101311A0	256	–	32	●	85	5.5	-40	1.7	2	4	2	8	32	4	2	2	–	–	8	2	–	●	USB 2.0 full-speed client contr.	Tray
CY8C4248LTI-L475		●	●	●	QFN	57	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x100F11A0	256	–	32	–	85	5.5	-40	1.7	–	2	2	8	32	4	4	2	–	–	8	2	–	●	USB 2.0 full-speed client contr.	Tray
CY8C4248LTI-L485		●	●	●	QFN	57	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x101211A0	256	–	32	●	85	5.5	-40	1.7	2	2	2	8	32	4	4	2	–	–	8	2	–	●	USB 2.0 full-speed client contr.	Tray
CY8C4248LTQ-L485		●	●	●	QFN	57	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x101211A0	256	–	32	●	85	5.5	-40	1.7	2	2	2	8	32	4	4	2	–	–	8	2	–	●	USB 2.0 full-speed client contr.	Tray

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Product type/part number																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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Industrial PSoC™ 6

Product type/part number	Industrial		Consumer		BLE Maximum Data Rate [Mbps]		BLE Power Output [dBm]		BLE RX Sensitivity [dBm]		BLE Supported Frequency band [GHz]		CapSense		Package		# GPIOs		Processor type		Max. Operating frequency [MHz]		Secondary processor type		Cryptographics accelerator		Dedicated ADC (# Max Resolution @ Sample rate)		Dedicated DAC (# Max Resolution @ Sample rate)		Flash [KB]		SRAM [KB]		I ² S		LCD direct drive		Max. Operating temp. [°C]		Max. Operating voltage [V]		Min. Operating temp. [°C]		Min. Operating voltage [V]		# CAN controllers		# Dedicated comparators		# Dedicated OpAmps		# Dedicated timer/Counter/PWM blocks		# DMA channels		# Programmable universal digital blocks		# Serial communication blocks (I ² C, UART, SPI)		PDM-PCM		Quad-SPI		Smart I/O		FS-USB		Package carrier	
PSoC™ 62 Series																																																																						
CY8C6245FNI-S3D41T	●	●	–	–	–	–	–	●	WLCSP	–	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	–	512	256	–	●	85	3.6	–40	1.7	–	2	–	12	2	–	6	–	●	8	Dual host and device	Reel																																		
CY8C6245FNI-S3D11T	●	●	–	–	–	–	–	●	WLCSP	–	Cortex®-M4	150	Cortex®-M0	–	SAR (1, 12-bit @ 1 msps)	–	512	256	–	●	85	3.6	–40	1.7	–	2	–	12	2	–	6	–	●	16	Dual host and device	Reel																																		
CY8C6245LQI-S3D02	●	●	–	–	–	–	–	–	QFN	–	Cortex®-M4	150	Cortex®-M0	–	SAR (1, 12-bit @ 1 msps)	–	512	256	–	●	85	3.6	–40	1.7	–	2	–	12	2	–	6	–	●	8	Dual host and device	Tray																																		
CY8C624ABZI-S2D44	●	●	–	–	–	–	–	●	BGA	100	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	–	2048	1024	2	●	85	3.6	–40	1.7	–	2	–	32	4	–	12	2	●	16	Dual host and device	Tray																																		
CY8C6247FDI-D02T	●	●	–	–	–	–	–	–	WLCSP	–	Cortex®-M4	150	Cortex®-M0	–	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	●	85	3.6	–40	1.7	–	2	–	32	32	–	9	–	●	16	Dual host and device	Reel																																		
CY8C6247BZI-D34	●	●	–	–	–	–	–	●	BGA	104	Cortex®-M4	150	Cortex®-M0	–	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	●	85	3.6	–40	1.7	–	2	2	32	32	12	9	–	●	16	Dual host and device	Tray																																		
CY8C624AFNI-S2D43T	●	●	–	–	–	–	–	●	WLCSP	–	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	–	2048	1024	2	●	85	3.6	–40	1.7	–	2	–	32	–	–	–	2	●	16	Dual host and device	Reel																																		
CY8C624AAZI-S2D44	●	●	–	–	–	–	–	●	QFP	–	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	–	2048	1024	2	●	85	3.6	–40	1.7	–	2	–	32	–	–	–	2	●	16	Dual host and device	Tray																																		
CY8C6245AZI-S3D72	●	●	–	–	–	–	–	●	QFP	64	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	–	512	256	–	●	85	3.6	–40	1.7	1	2	–	12	2	–	6	–	–	8	Dual host and device	Tray																																		
CY8C6248FNI-S2D43T	●	●	–	–	–	–	–	●	WLCSP	–	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	–	1024	512	2	●	85	3.6	–40	1.7	–	2	–	32	–	–	–	2	●	16	Dual host and device	Reel																																		
CY8C6245FNI-S3D71T	●	●	–	–	–	–	–	●	WLCSP	–	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	–	512	256	–	●	85	3.6	–40	1.7	1	2	–	12	2	12	6	–	●	8	Dual host and device	Reel																																		
CY8C6247BZI-D44	●	●	–	–	–	–	–	●	BGA	104	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	●	85	3.6	–40	1.7	–	2	–	32	32	–	9	–	●	16	Dual host and device	Tray																																		
PSoC™ 63 Series																																																																						
CY8C6347FMI-BLD33T	●	●	2	+4	-95	2.4	●	WLCSP	72	Cortex®-M4	150	Cortex®-M0	–	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	●	85	3.6	–40	1.7	–	2	2	32	32	12	9	2	●	16	–	Reel																																			
CY8C6347FMI-BLD13T	●	●	2	+4	-95	2.4	●	WLCSP	72	Cortex®-M4	150	Cortex®-M0	–	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	●	85	3.6	–40	1.7	–	2	–	32	32	–	9	2	●	16	–	Reel																																			
CY8C6347FMI-BLD53T	●	●	2	+4	-95	2.4	●	WLCSP	72	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	●	85	3.6	–40	1.7	–	2	2	32	32	12	9	2	●	16	–	Reel																																			
CY8C6347FMI-BUD43T	●	●	2	+4	-95	2.4	●	WLCSP	69	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	●	85	3.6	–40	1.7	–	2	–	32	32	–	9	2	●	16	Dual host and device	Reel																																			
CY8C6347FMI-BUD13T	●	●	2	+4	-95	2.4	●	WLCSP	69	Cortex®-M4	150	Cortex®-M0	–	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	●	85	3.6	–40	1.7	–	2	–	32	32	–	9	2	●	16	Dual host and device	Reel																																			
CY8C6347FMI-BUD33T	●	●	2	+4	-95	2.4	●	WLCSP	69	Cortex®-M4	150	Cortex®-M0	–	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	●	85	3.6	–40	1.7	–	2	2	32	32	12	9	2	●	16	Dual host and device	Reel																																			
CY8C68237FM-BLE	●	●	2	+4	-95	2.4	●	WLCSP	72	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	●	85	5,5	–40	1.9	–	2	2	32	32	12	9	2	●	16	–	Tray																																			
CY8C6347FMI-BLD43T	●	●	2	+4	-95	2.4	●	WLCSP	72	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	●	85	3.6	–40	1.7	–	2	–	32	32	–	9	2	●	16	–	Reel																																			
CY8C6336BZI-BLD14	●	●	2	+4	-95	2.4	●	BGA	84	Cortex®-M4	150	Cortex®-M0	–	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	512	128	1	●	85	3.6	–40	1.7	–	2	–	32	32	–	9	2	●	16	Dual host and device	Tray																																			
CY8C6347BZI-BLD34	●	●	2	+4	-95	2.4	●	BGA	84	Cortex®-M4	150	Cortex®-M0	–	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	●	85	3.6	–40	1.7	–	2	2	32	32	12	9	2	●	16	Dual host and device	Tray																																			
CY8C6316BZI-BLF54	●	●	2	+4	-95	2.4	●	BGA	84	Cortex®-M4	50	–	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	512	128	1	●	85	3.6	–40	1.7	–	2	2	32	32	12	9	2	●	16	Dual host and device	Tray																																			
CY8C6336BZI-BLF04	●	●	2	+4	-95	2.4	–	BGA	84	Cortex®-M4	150	–	–	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	512	128	1	●	85	3.6	–40	1.7	–	2	–	32	32	–	9	2	●	16	Dual host and device	Tray																																			
CY8C6347BZI-BLD44	●	●	2	+4	-95	2.4	●	BGA	84	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	●	85	3.6	–40	1.7	–	2	–	32	32	–	9	2	●	16	Dual host and device	Tray																																			
CY8C6337BZI-BLF14	●	●	2	+4	-95	2.4	●	BGA	84	Cortex®-M4	150	–	–	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	●	85	3.6	–40	1.7	–	2	–	32	32	–	9	2	●	16	Dual host and device	Tray																																			
CY8C6316BZI-BLF03	●	●	2	+4	-95	2.4	–	BGA	78	Cortex®-M4	50	–	–	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	512	160	1	●	85	3.6	–40	1.7	–	2	–	32	32	–	9	–	●	16	–	Tray																																			

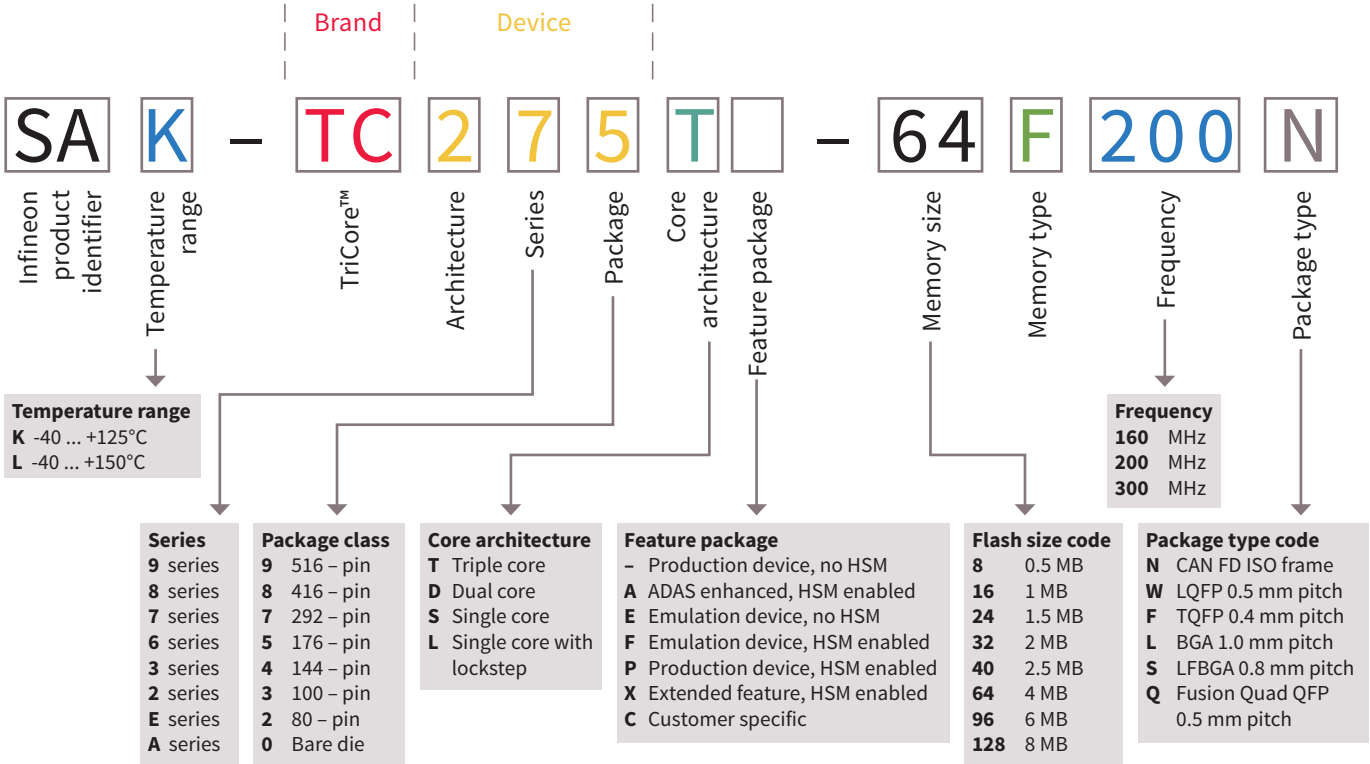
Industrial PSoC™ 6

Product type/part number	Industrial		Consumer	BLE Maximum Data Rate [Mbps]	BLE Power Output [dBm]	BLE RX Sensitivity [dBm]	BLE Supported Frequency band [GHz]	CapSense	Package	# GPIOs	Processor type	Max. Operating frequency [MHz]	Secondary processor type	Cryptographics accelerator	Dedicated ADC (# Max Resolution @ Sample rate)	Dedicated DAC (# Max Resolution @ Sample rate)	Flash [KB]	SRAM [KB]	I ² S	LCD direct drive	Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Dedicated comparators	# Dedicated OpAmps	# Dedicated timer/Counter/PWM blocks	# DMA channels	# Programmable universal digital blocks	# Serial communication blocks (I ² C, UART, SPI)	PDM-PCM	Quad-SPI	Smart I/O	FS-USB	Package carrier
PSoC™ 63 Series																																				
CY8C6336BZI-BLF03	●	●	2	+4	-95	2.4	–	BGA	78	Cortex®-M4	150	–	–	–	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	512	160	1	●	85	3.6	-40	1.7	–	2	–	32	32	–	9	–	●	16	–	Tray
CY8C6347BZI-BLD43	●	●	2	+4	-95	2.4	●	BGA	78	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	●	85	3.6	-40	1.7	–	2	–	32	32	–	9	2	●	16	–	Tray	
CY8C6336BZI-BLD13	●	●	2	+4	-95	2.4	●	BGA	78	Cortex®-M4	150	Cortex®-M0	–	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	512	160	1	●	85	3.6	-40	1.7	–	2	–	32	32	–	9	–	●	16	–	Tray	
CY8C6337BZI-BLF13	●	●	2	+4	-95	2.4	●	BGA	78	Cortex®-M4	150	–	–	–	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	●	85	3.6	-40	1.7	–	2	–	32	32	–	9	2	●	16	–	Tray
CY8C6347BZI-BLD43T	●	●	2	+4	-95	2.4	●	BGA	78	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	●	85	3.6	-40	1.7	–	2	–	32	32	–	9	2	●	16	–	Reel	
CY8C6347BZI-BLD53T	●	●	2	+4	-95	2.4	●	BGA	78	Cortex®-M4	150	Cortex®-M0	–	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	●	85	3.6	-40	1.7	–	2	2	32	32	12	9	2	●	16	–	Reel	
CY8C6316BZI-BLF53	●	●	2	+4	-95	2.4	●	BGA	78	Cortex®-M4	50	–	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	512	160	1	●	85	3.6	-40	1.7	–	2	2	32	32	12	9	–	●	16	–	Tray	
CY8C6336LQI-BLF42	●	●	2	+4	-95	2.4	●	QFN	41	Cortex®-M4	150	–	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	512	128	1	●	85	3.6	-40	1.7	–	2	–	32	32	–	9	2	●	16	–	Tray	
CY8C6316BZI-BLF04	●	●	2	+4	-95	2.4	–	BGA	84	Cortex®-M4	50	–	–	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	512	128	1	●	85	3.6	-40	1.7	–	2	–	32	32	–	9	2	●	16	Dual host and device	Tray	
CY8C6336LQI-BLF02	●	●	2	+4	-95	2.4	–	QFN	41	Cortex®-M4	150	–	–	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	512	128	1	●	85	3.6	-40	1.7	–	2	–	32	32	–	9	2	●	16	–	Tray	
CY8C6347FMI-BUD53T	●	●	2	+4	-95	2.4	●	WLCSP	–	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	●	85	3.6	-40	1.7	–	2	2	32	32	12	9	–	–	16	Dual host and device	Reel	
CY8C6347BZI-BLD33	●	●	2	+4	-95	2.4	●	BGA	78	Cortex®-M4	150	Cortex®-M0	–	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	●	85	3.6	-40	1.7	–	2	2	32	32	12	9	2	●	16	–	Tray	
CY8C6347LQI-BLD52	●	●	2	+4	-95	2.4	●	QFN	–	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	●	85	3.6	-40	1.7	–	2	2	32	32	12	9	2	●	16	–	Tray	
CY8C6347BZI-BLD53	●	●	2	+4	-95	2.4	●	BGA	78	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	●	85	3.6	-40	1.7	–	2	2	32	32	12	9	2	●	16	–	Tray	

Automotive,
Off-Highway vehicles and
Safety Required Applications



AURIX™ Microcontroller – TC2x family



32-bit AURIX™ Microcontroller – TC2x family

Product type	Package		TriCore™		Program flash		Data flash		SRAM	DMA	ADC		Timer - GTM				Timer	Interfaces																Safety	Security	Power		
	Temperature T _a [°C]	Package (Pitch)	# Cores/checker	Max frequency [MHz]	Size [MB]	Data retention	Physical size [kb]	Erase cycles	Data retention	Total (DMI, PMI) [kB]	Channels	Modules 12-bit (SAR)/16-bit (DS)	Channels VADC/DSADC	GTM input/output channels	TOM – standard 16-bit PWM ch.	ATOM – complex 24-bit PWM ch.	DTM – 2x 4 ch	CCU/GPT modules	FlexRay (# ch.)	CAN-FD (nodes/obj)(DIS 2014)	CAN-FD (nodes/obj)(DIS 2015)	Queued Synchronous Peripheral Interface (QSPI)	Asynchronous/Synchronous Interface (ASCLIN)	Inter-Integrated Circuit Bus Interface (I ² C)	Single Edge Nibble Transmission (SENT)	Peripheral Sensor Interface (PSI5)	PSI with Serial PHY Connection (PSI5S)	High-Speed Communication Tunnel (HSCT)	Micro Second Channel (MSC)	External bus interface e.g. ext. memory	FFT accelerator engine	Camera (incl. pixel preprocessing) & ext. ADC 16-bit interface (CIF)	Ethernet MAC 100 Mbit/s	SIL level	Hardware Security Module (HSM)	Embedded Voltage Regulator (EVR)	Standby control unit	
AURIX™ TC2x – family																																						
SAK-TC299TX-128F300	125	LFBGA-516 (0.8 mm)	3/1	300	8	20 years	768	125 k	10 years	2776	128	11/10	84/10 diff	48/152	80	72	–	2/1	2/4	6/384	4	6	4	2	15	5	1	1	3 diff LVDS	1	–	–	1	ASIL-D	●	●	SRAM	
SAK-TC299TY-128F300	125	LFBGA-516 (0.8 mm)	3/1	300	8	20 years	768	125 k	10 years	2776	128	11/10	84/10 diff	48/152	80	72	–	2/1	2/4	6/384	4	6	4	2	15	5	1	1	3 diff LVDS	1	–	–	1	ASIL-D	–	●	SRAM	
SAK/L-TC299TP-128F300	125, 150	LFBGA-516 (0.8 mm)	3/1	300	8	20 years	768	125 k	10 years	728	128	11/10	84/10 diff	48/152	80	72	–	2/1	2/4	6/384	4	6	4	2	15	5	1	1	3 diff LVDS	1	–	–	1	ASIL-D	●	●	SRAM	
SAK/L-TC298TP-128F300	125, 150	LFBGA-416 (1.0 mm)	3/1	300	8	20 years	768	125 k	10 years	728	128	11/10	62/10 diff	48/152	80	72	–	2/1	2/4	6/384	4	4	4	2	15	5	1	1	3 diff LVDS	1	–	–	1	ASIL-D	●	●	SRAM	
SAK-TC297TA-128F300	125	LFBGA-292 (0.8 mm)	3/1	300	8	20 years	768	125 k	10 years	2776	128	11/10	60/6 diff	48/152	80	72	–	2/1	2/4	6/384	4	5	4	2	15	5	1	1	3 diff LVDS	–	1	1	1	ASIL-D	●	●	SRAM	
SAK-TC297TB-128F300	125	LFBGA-292 (0.8 mm)	3/1	300	8	20 years	768	125 k	10 years	2776	128	11/10	60/6 diff	48/152	80	72	–	2/1	2/4	6/384	4	5	4	2	15	5	1	1	3 diff LVDS	–	1	1	1	ASIL-D	–	●	SRAM	
SAK-TC297TX-128F300	125	LFBGA-292 (0.8 mm)	3/1	300	8	20 years	768	125 k	10 years	2776	128	11/10	60/6 diff	48/152	80	72	–	2/1	2/4	6/384	4	5	4	2	15	5	1	1	3 diff LVDS	–	–	–	1	ASIL-D	●	●	SRAM	
SAK-TC297TY-128F300	125	LFBGA-292 (0.8 mm)	3/1	300	8	20 years	768	125 k	10 years	2776	128	11/10	60/6 diff	48/152	80	72	–	2/1	2/4	6/384	4	5	4	2	15	5	1	1	3 diff LVDS	–	–	–	1	ASIL-D	–	●	SRAM	
SAK/L-TC297TP-128F300	125, 150	LFBGA-292 (0.8 mm)	3/1	300	8	20 years	768	125 k	10 years	728	128	11/10	60/6 diff	48/152	80	72	–	2/1	2/4	6/384	4	5	4	2	15	5	1	1	3 diff LVDS	–	–	–	1	ASIL-D	●	●	SRAM	
SAK/L-TC297T-128F300	125, 150	LFBGA-292 (0.8 mm)	3/1	300	8	20 years	768	125 k	10 years	728	128	11/10	60/6 diff	48/152	80	72	–	2/1	2/4	6/384	4	5	4	2	15	5	1	1	3 diff LVDS	–	–	–	1	ASIL-D	–	●	SRAM	
SAK/L-TC277TP-64F200	125, 150	LFBGA-292 (0.8 mm)	3/2	200	4	20 years	384	125 k	10 years	472	64	8/6	60/6 diff	32/88	48	40	–	2/1	1/2	4/256	4	4	4	1	10	3	1	1	2 diff LVDS	–	–	–	1	ASIL-D	●	●	SRAM	
SAK/L-TC277T-64F200	125, 150	LFBGA-292 (0.8 mm)	3/2	200	4	20 years	384	125 k	10 years	472	64	8/6	60/6 diff	32/88	48	40	–	2/1	1/2	4/256	4	4	4	1	10	3	1	1	2 diff LVDS	–	–	–	1	ASIL-D	–	●	SRAM	
SAK/L-TC275TP-64F200	125, 150	LQFP-176 (0.5 mm)	3/2	200	4	20 years	384	125 k	10 years	472	64	8/6	48/6 diff	32/88	48	40	–	2/1	1/2	4/256	4	4	4	1	10	3	1	1	2 diff LVDS	–	–	–	1	ASIL-D	●	●	SRAM	
SAK/L-TC275T-64F200	125, 150	LQFP-176 (0.5 mm)	3/2	200	4	20 years	384	125 k	10 years	472	64	8/6	48/6 diff	32/88	48	40	–	2/1	1/2	4/256	4	4	4	1	10	3	1	1	2 diff LVDS	–	–	–	1	ASIL-D	–	●	SRAM	
SAK/L-TC267D-40F200	125, 150	LFBGA-292 (0.8 mm)	2/1	200	2.5	20 years	96	125 k	10 years	240	48	4/3	56/3 diff	24/ 64	32	32	–	2/1	1/2	5/256	–	4	4	1	6	2	1	1	2 diff LVDS	–	–	–	1	ASIL-D	–	●	●	
SAK/L-TC265D-40F200	125, 150	LQFP-176 (0.5 mm)	2/1	200	2.5	20 years	96	125 k	10 years	240	48	4/3	50/3 diff	24/ 64	32	32	–	2/1	1/2	5/256	4	4	4	1	6	2	1	1	2 diff LVDS	–	–	–	1	ASIL-D	–	●	●	
SAK-TC264DA-40F200	125	LQFP-144 (0.5 mm)	2/1	200	2.5	20 years	96	125 k	10 years	752	48	4/3	40/3 diff	24/ 64	32	32	–	2/1	1/2	5/256	4	4	4	1	6	2	1	1	2 diff LVDS	–	1	1	1	ASIL-D	–	●	●	
SAK/L-TC264D-40F200	125, 150	LQFP-144 (0.5 mm)	2/1	200	2.5	20 years	96	125 k	10 years	240	48	4/3	40/3 diff	24/ 64	32	32	–	2/1	1/2	5/256	4	4	4	1	6	2	1	1	2 diff LVDS	–	–	–	1	ASIL-D	–	●	●	
SAK-TC234LA-32F200	125	TQFP-144 (0.4 mm)	1/1	200	2	20 years	128	125 k	10 years	704	16	4/–	24/–	8/32	32	–	2	2/1	1/2	6/256	–	4	2	–	4	–	–	–	–	–	–	1	–	1	ASIL-D	●	●	WUT + SRAM
SAK-TC234LX-32F200	125	TQFP-144 (0.4 mm)	1/1	200	2	20 years	128	125 k	10 years	704	16	2/–	24/–	8/32	32	–	2	2/1	1/2	6/256	–	4	2	–	4	–	–	–	–	–	–	–	1	ASIL-D	●	●	WUT + SRAM	
SAK/L-TC237LP-32F200	125, 150	LFBGA-292 (0.8 mm)	1/1	200	2	20 years	128	125 k	10 years	192	16	2/–	24/–	8/32	32	–	2	2/1	1/2	6/256	4	4	2	–	4	–	–	–	–	–	–	–	–	–	ASIL-D	●	●	WUT + SRAM
SAK/L-TC234LP-32F200	125, 150	TQFP-144 (0.4 mm)	1/1	200	2	20 years	128	125 k	10 years	192	16	2/–	24/–	8/32	32	–	2	2/1	1/2	6/256	4	4	2	–	4	–	–	–	–	–	–	–	–	–	ASIL-D	●	●	WUT + SRAM
SAK/L-TC234L-32F200	125, 150	TQFP-144 (0.4 mm)	1/1	200	2	20 years	128	125 k	10 years	192	16	2/–	24/–	8/32	32	–	2	2/1	1/2	6/256	4	4	2	–	4	–	–	–	–	–	–	–	–	–	ASIL-D	–	●	WUT + SRAM
SAK/L-TC233L-32F200	125, 150	TQFP-100 (0.4 mm)	1/1	200	2	20 years	128	125 k	10 years	192	16	2/–	24/–	8/32	32	–	2	2/1	1/2	6/256	4	4	2	–	4	–	–	–	–	–	–	–	–	–	ASIL-D	–	●	WUT + SRAM
SAK/L-TC233LP-32F200	125, 150	TQFP-100 (0.4 mm)	1/1	200	2	20 years	128	125 k	10 years	192	16	2/–	24/–	8/32	32	–	2	2/1	1/2	6/256	4	4	2	–	4	–	–	–	–	–	–	–	–	–	ASIL-D	●	●	WUT + SRAM

32-bit AURIX™ Microcontroller – TC2x family

Product type	Package		TriCore™		Program flash		Data flash			SRAM	DMA	ADC		Timer - GTM			Timer	Interfaces														Safety	Security	Power			
	Temperature T _A [°C]	Package (Pitch)	# Cores/checker	Max frequency [MHz]	Size [MB]	Data retention	Physical size [kb]	Erase cycles	Data retention	Total (DMI, PM) [kB]	Channels	Modules 12-bit (SAR)/16-bit (DS)	Channels VADC/DSADC	GTM input/output channels	TOM – standard 16-bit PWM ch.	ATOM – complex 24-bit PWM ch.	DTM – 2x 4 ch	CCU/GPT modules	FlexRay #(ch.)	CAN-FD (nodes/obj)/(DIS 2014)	CAN-FD (nodes/obj)/(DIS 2015)	Queued Synchronous Peripheral Interface (QSPI)	Asynchronous/Synchronous Interface (ASCLIN)	Inter-Integrated Circuit Bus Interface (I ² C)	Single Edge Nibble Transmission (SENT)	Peripheral Sensor Interface (PSI5)	PSI with Serial PHY Connection (PSI5S)	High-Speed Communication Tunnel (HSCT)	Micro Second Channel (MSC)	External bus interface e.g. ext. memory	FFT accelerator engine	Camera (incl. pixel preprocessing) & ext. ADC 16-bit interface (CIF)	Ethernet MAC 100 Mbit/s	SIL Level	Hardware Security Module (HSM)	Embedded Voltage Regulator (EVR)	Standby control unit
AURIX™ TC2x – family																																					
SAK/L-TC224L-16F133	125, 150	TQFP-144 (0.4 mm)	1/1	133	1	20 years	96	125 k	10 years	96	16	2/–	24/–	8/32	32	–	2	2/1	–	3/128	3	4	2	–	4	–	–	–	–	–	–	–	–	ASIL-D	–	●	WUT + SRAM
SAK/L-TC224S-16F133	125, 150	TQFP-144 (0.4 mm)	1/0	133	1	20 years	96	125 k	10 years	96	16	2/–	24/–	8/32	32	–	2	2/1	–	3/128	3	4	2	–	4	–	–	–	–	–	–	–	–	ASIL-B	–	●	WUT + SRAM
SAK/L-TC223L-16F133	125, 150	TQFP-100 (0.4 mm)	1/1	133	1	20 years	96	125 k	10 years	96	16	2/–	24/–	8/32	32	–	2	2/1	–	3/128	3	4	2	–	4	–	–	–	–	–	–	–	–	ASIL-D	–	●	WUT + SRAM
SAK/L-TC223S-16F133	125, 150	TQFP-100 (0.4 mm)	1/0	133	1	20 years	96	125 k	10 years	96	16	2/–	24/–	8/32	32	–	2	2/1	–	3/128	3	4	2	–	4	–	–	–	–	–	–	–	–	ASIL-B	–	●	WUT + SRAM
SAK/L-TC222L-16F133	125, 150	TQFP-80 (0.4 mm)	1/1	133	1	20 years	96	125 k	10 years	96	16	2/–	24/–	8/32	32	–	2	2/1	–	3/128	3	4	2	–	4	–	–	–	–	–	–	–	–	ASIL-D	–	●	WUT + SRAM
SAK/L-TC222S-16F133	125, 150	TQFP-80 (0.4 mm)	1/0	133	1	20 years	96	125 k	10 years	96	16	2/–	24/–	8/32	32	–	2	2/1	–	3/128	3	4	2	–	4	–	–	–	–	–	–	–	–	ASIL-B	–	●	WUT + SRAM
SAK/L-TC214L-8F133	125, 150	TQFP-144 (0.4 mm)	1/1	133	0.5	20 years	64	125 k	10 years	56	16	2/–	24/–	8/32	32	–	2	2/1	–	3/128	3	4	2	–	4	–	–	–	–	–	–	–	–	ASIL-D	–	●	WUT + SRAM
SAK/L-TC214S-8F133	125, 150	TQFP-144 (0.4 mm)	1/0	133	0.5	20 years	64	125 k	10 years	56	16	2/–	24/–	8/32	32	–	2	2/1	–	3/128	3	4	2	–	4	–	–	–	–	–	–	–	–	ASIL-B	–	●	WUT + SRAM
SAK/L-TC213L-8F133	125, 150	TQFP-100 (0.4 mm)	1/1	133	0.5	20 years	64	125 k	10 years	56	16	2/–	24/–	8/32	32	–	2	2/1	–	3/128	3	4	2	–	4	–	–	–	–	–	–	–	–	ASIL-D	–	●	WUT + SRAM
SAK/L-TC213S-8F133	125, 150	TQFP-100 (0.4 mm)	1/0	133	0.5	20 years	64	125 k	10 years	56	16	2/–	24/–	8/32	32	–	2	2/1	–	3/128	3	4	2	–	4	–	–	–	–	–	–	–	–	ASIL-B	–	●	WUT + SRAM
SAK/L-TC212L-8F133	125, 150	TQFP-80 (0.4 mm)	1/1	133	0.5	20 years	64	125 k	10 years	56	16	2/–	24/–	8/32	32	–	2	2/1	–	3/128	3	4	2	–	4	–	–	–	–	–	–	–	–	ASIL-D	–	●	WUT + SRAM
SAK/L-TC212S-8F133	125, 150	TQFP-80 (0.4 mm)	1/0	133	0.5	20 years	64	125 k	10 years	56	16	2/–	24/–	8/32	32	–	2	2/1	–	3/128	3	4	2	–	4	–	–	–	–	–	–	–	–	ASIL-B	–	●	WUT + SRAM

ASC = Asynchronous Serial Channel

MSC = Micro Second Channel

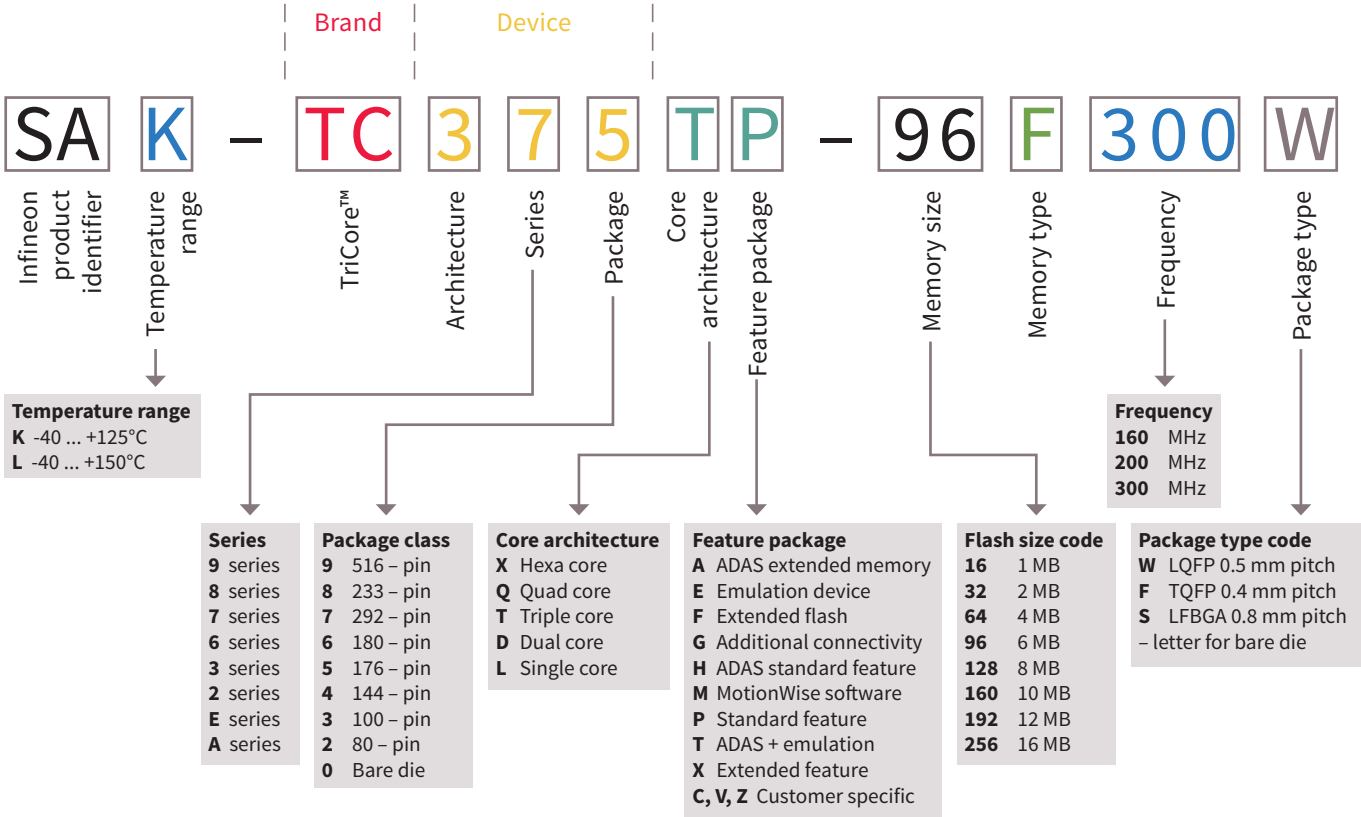
Ambient temperature range:

EVR = Embedded Voltage Regulator

SENT= Single Edge Nibble Transmission

K = -40 ... 125°C, L = -40 ... 150°C

AURIX™ Microcontroller – TC3x family



32-bit AURIX™ Microcontroller – TC3x family

Product type	TriCore™	Package		Program flash		Data flash			SRAM	DMA	Timer	Interfaces														Safety	Security	Power		
	Max frequency [MHz]	Temperature T _A [°C]	Package (Pitch)	Size [MB]	Data retention	Physical size [kb]	Erase cycles	Data retention	Total (DMI, PM1) [KB]	Channels	GTW/CCU/GPT modules	FlexRay (#/ch.)	CAN-FD	Queued Synchronous Peripheral Interface (QSPI)	Asynchronous/Synchronous Interface (ASCLIN)	Inter-Integrated Circuit Bus Interface (I ² C)	Single Edge Nibble Transmission (SENT)	Peripheral Sensor Interface (PSI5)	PSI with Serial PHY Connection (PSI5S)	High-Speed Communication Tunnel (HSC _T)	Micro Second Channel (MSC)	External bus interface e.g. ext. memory	Signal Processing Unit (SPU)	Camera (incl. pixel preprocessing) & ext. ADC 16-bit interface (CIF)	Ethernet MAC 100 Mbit/s	SIL level	Hardware Security Module (HSM)	Embedded Voltage Regulator (EVR) (5 V/3.3 V)	Standby control unit	
AURIX™ TC3x – family																														
SAK-TC397XA-256F300S	300	125	LFBGA-292 (0.8 mm)	16	20 years	1024	125 k	10 years	6912	128	●/●/●	4	12	6	12	2	17	4	●	2	1	–	2	–	1/1	ASIL-D	Full eVita	●	● (8 bit)	
SAK/L-TC399XX-256F300S	300	125–150	LFBGA-516 (0.8 mm)	16	20 years	1024	125 k	10 years	6912	128	●/●/●	4	12	6	12	2	25	4	●	2	4	●	–	–	1/1	ASIL-D	Full eVita	●	● (8 bit)	
SAK/L-TC399XP-256F300S	300	125–150	LFBGA-516 (0.8 mm)	16	20 years	1024	125 k	10 years	2816	128	●/●/●	4	12	6	12	2	25	4	●	2	4	●	–	–	1/1	ASIL-D	Full eVita	●	● (8 bit)	
SAK/L-TC397XX-256F300S	300	125–150	LFBGA-292 (0.8 mm)	16	20 years	1024	125 k	10 years	6912	128	●/●/●	4	12	6	12	2	20	4	●	2	2	–	–	–	1/1	ASIL-D	Full eVita	●	● (8 bit)	
SAK/L-TC397XP-256F300S	300	125–150	LFBGA-292 (0.8 mm)	16	20 years	1024	125 k	10 years	2816	128	●/●/●	4	12	6	12	2	20	4	●	2	2	–	–	–	1/1	ASIL-D	Full eVita	●	● (8 bit)	
SAK-TC397QA-160F300S	300	125	LFBGA-292 (0.8 mm)	16	20 years	1024	125 k	10 years	6368	128	●/●/●	4	12	6	12	2	20	4	●	2	1	–	–	–	1/1	ASIL-D	Full eVita	●	● (8 bit)	
SAK-TC397XM-256F300S	300	125	LFBGA-292 (0.8 mm)	16	20 years	1024	125 k	10 years	2816	128	●/●/●	4	12	6	12	2	20	4	●	2	2	–	–	–	1/1	ASIL-D	Full eVita	●	● (8 bit)	
SAK/L-TC389QP-160F300S	300	125–150	LFBGA-516 (0.8 mm)	10	20 years	512	125 k	10 years	1568	128	●/●/●	4	12	5	24	2	25	4	●	1	3	–	–	–	1/1	ASIL-D	Full eVita	●	● (8 bit)	
SAK/L-TC387QP-160F300S	300	125–150	LFBGA-292 (0.8 mm)	10	20 years	512	125 k	10 years	1568	128	●/●/●	4	12	5	24	2	20	4	●	1	2	–	–	–	1/1	ASIL-D	Full eVita	●	● (8 bit)	
SAK-TC3E7QG-160F300S	300	125	LFBGA-292 (0.8 mm)	10	20 years	512	125 k	10 years	1696	128	●/●/●	4	20	5	24	2	20	4	●	1	2	–	–	–	1/1	ASIL-D	Full eVita	●	● (8 bit)	
SAK/L-TC3E7QF-192F300S	300	125–150	LFBGA-292 (0.8 mm)	12	20 years	512	125 k	10 years	1696	128	●/●/●	4	16	5	24	2	20	4	●	1	2	–	–	–	1/1	ASIL-D	Full eVita	●	● (8 bit)	
SAK/L-TC3E7QX-192F300S	300	125–150	LFBGA-292 (0.8 mm)	12	20 years	512	125 k	10 years	1696	128	●/●/●	4	20	5	24	2	20	4	●	1	2	–	–	–	1/1	ASIL-D	Full eVita	●	● (8 bit)	
SAK-TC377TX-96F300S	300	125	LFBGA-292 (0.8 mm)	6	20 years	256	125 k	10 years	4208	128	●/●/●	2	12	5	12	1	15	2	●	1	2	–	–	1	2/2	ASIL-D	Full eVita	●	● (8 bit)	
SAK/L-TC377TP-96F300S	300	125–150	LFBGA-292 (0.8 mm)	6	20 years	256	125 k	10 years	1136	128	●/●/●	2	8	5	12	1	15	2	●	1	2	–	–	–	1/1	ASIL-D	Full eVita	●	● (8 bit)	
SAK/L-TC375TP-96F300W	300	125–150	LQFP-176 (0.5 mm)	6	20 years	256	125 k	10 years	1136	128	●/●/●	2	8	5	12	1	15	2	●	1	2	–	–	–	1/1	ASIL-D	Full eVita	●	● (8 bit)	
SAK/L-TC367DP-64F300S	300	125–150	LFBGA-292 (0.8 mm)	4	20 years	128	125 k	10 years	672	64	●/●/●	2	8	4	12	1	10	2	●	1	1	–	–	–	1/1	ASIL-D	Full eVita	●	● (8 bit)	
SAK/L-TC365DP-64F300W	300	125–150	LQFP-176 (0.5 mm)	4	20 years	128	125 k	10 years	672	64	●/●/●	2	8	4	12	1	10	2	●	1	1	–	–	–	1/1	ASIL-D	Full eVita	●	● (8 bit)	
SAK/L-TC364DP-64F300W	300	125–150	LQFP-176 (0.5 mm)	4	20 years	128	125 k	10 years	672	64	●/●/●	2	8	4	12	1	10	2	●	1	1	–	–	–	1/1	ASIL-D	Full eVita	●	● (8 bit)	
SAK/L-TC364DP-64F300F	300	125–150	TQFP-144 (0.4 mm)	4	20 years	128	125 k	10 years	672	64	●/●/●	2	8	4	12	1	10	2	●	1	1	–	–	–	1/1	ASIL-D	Full eVita	●	● (8 bit)	
SAK/L-TC367DP-64F300S	300	125–150	LFBGA-292 (0.8 mm)	4	20 years	128	125 k	10 years	672	64	●/●/●	2	8	4	12	1	10	2	●	1	1	–	–	–	1/1	ASIL-D	Full eVita	●	● (8 bit)	
SAK/L-TC366DP-64F300S	300	125–150	BGA-180 (0.8 mm)	4	20 years	128	125 k	10 years	672	64	●/●/●	2	8	4	12	1	10	2	●	1	1	–	–	–	1/1	ASIL-D	Full eVita	●	● (8 bit)	
SAK/L-TC365DP-64F300W	300	125–150	LQFP-176 (0.5 mm)	4	20 years	128	125 k	10 years	672	64	●/●/●	2	8	4	12	1	10	2	●	1	1	–	–	–	1/1	ASIL-D	Full eVita	●	● (8 bit)	
SAK/L-TC364DP-64F300W	300	125–150	LQFP-176 (0.5 mm)	4	20 years	128	125 k	10 years	672	64	●/●/●	2	8	4	12	1	10	2	●	1	1	–	–	–	1/1	ASIL-D	Full eVita	●	● (8 bit)	
SAK/L-TC364DP-64F300F	300	125–150	TQFP-144 (0.4 mm)	4	20 years	128	125 k	10 years	672	64	●/●/●	2	8	4	12	1	10	2	●	1	1	–	–	–	1/1	ASIL-D	Full eVita	●	● (8 bit)	

32-bit AURIX™ Microcontroller – TC3x family

Product type	TriCore™	Package		Program flash		Data flash			SRAM	DMA	Timer	Interfaces														Safety	Security	Power			
	Max frequency [MHz]	Temperature T _A [°C]	Package (Pitch)	Size [MB]	Data retention	Physical size [kb]	Erase cycles	Data retention	Total (DMI, PWM) [KB]	Channels	GTW/CCU/GPT modules	FlexRay (#/ch,)	CAN-FD	Queued Synchronous Peripheral Interface (QSPI)	Asynchronous/Synchronous Interface (ASCLIN)	Inter-Integrated Circuit Bus Interface (I ² C)	Single Edge Nibble Transmission (SENT)	Peripheral Sensor Interface (PSI5)	PSI with Serial PHY Connection (PSI5S)	High-Speed Communication Tunnel (HSCT)	Micro Second Channel (MSC)	External bus interface e.g. ext. memory	Signal Processing Unit (SPU)	Camera (incl. pixel preprocessing) & ext. ADC 16-bit interface (CIF)	Ethernet MAC 100 Mbit/s	SIL level	Hardware Security Module (HSM)	Embedded Voltage Regulator (EVR) (5 V/3.3 V)	Standby control unit		
AURIX™ TC3x – family																															
SAK-TC357TA-64F300S	300	125	LFBGA-292 (0.8 mm)	4	20 years	128	125 k	10 years	3664	64	● / ● / ●	2	8	4	4	1	–	–	–	–	–	–	2	–	1/1	ASIL-D	Full eVita	●	● (8 bit)		
SAK-TC357TH-64F300S	300	125	LFBGA-292 (0.8 mm)	4	20 years	128	125 k	10 years	3152	64	● / ● / ●	2	8	4	4	1	–	–	–	–	–	–	2	–	1/1	ASIL-D	Full eVita	●	● (8 bit)		
SAK-TC356TH-64F300S	300	125	BGA-180 (0.8 mm)	4	20 years	128	125 k	10 years	3152	64	● / ● / ●	2	8	4	4	1	–	–	–	–	–	–	2	–	1/1	ASIL-D	Full eVita	●	● (8 bit)		
SAK-TC356TA-64F300S	300	125	BGA-180 (0.8 mm)	4	20 years	128	125 k	10 years	3664	64	● / ● / ●	2	8	4	4	1	–	–	–	–	–	–	2	–	1/1	ASIL-D	Full eVita	●	● (8 bit)		
SAK-TC337DA-32F200S	200	125	LFBGA-292 (0.8 mm)	2	20 years	128	125 k	10 years	1576	16	– / ● / ●	2	4	4	6	–	6	–	–	–	–	–	1	–	1/1	ASIL-D	Full eVita	●	● (8 bit)		
SAK/L-TC337LP-32F200S	200	125–150	LFBGA-292 (0.8 mm)	2	20 years	128	125 k	10 years	248	16	● / ● / ●	2	8	4	12	–	6	–	–	–	–	–	–	–	–/–	ASIL-D	Full eVita	●	● (8 bit)		
SAK/L-TC334LP-32F200F	200	125–150	TQFP-144 (0.4 mm)	2	20 years	128	125 k	10 years	248	16	● / ● / ●	2	8	4	12	–	6	–	–	–	–	–	–	–	–/–	ASIL-D	Full eVita	●	● (8 bit)		
SAK/L-TC333LP-32F200F	200	125–150	TQFP-100 (0.4 mm)	2	20 years	128	125 k	10 years	248	16	● / ● / ●	2	6	4	5	–	6	–	–	–	–	–	–	–	–/–	ASIL-D	Full eVita	●	● (8 bit)		
SAK/L-TC337LP-32F300S	300	125–150	LFBGA-292 (0.8 mm)	2	20 years	128	125 k	10 years	248	16	● / ● / ●	2	8	4	12	–	6	–	–	–	–	–	–	–	–/–	ASIL-D	Full eVita	●	● (8 bit)		
TC337DA-32F300S	300	125	LFBGA-292 (0.8 mm)	2	20 years	128	125 k	10 years	1576	16	– / ● / ●	2	4	4	6	–	6	–	–	–	–	–	1	–	1/1	ASIL-D	Full eVita	●	● (8 bit)		
SAK/L-TC336LP-32F300S	300	125–150	BGA-180 (0.8 mm)	2	20 years	128	125 k	10 years	248	16	● / ● / ●	2	8	4	12	–	6	–	–	–	–	–	–	–	–/–	ASIL-D	Full eVita	●	● (8 bit)		
SAK/L-TC336LP-32F200S	200	125–150	BGA-180 (0.8 mm)	2	20 years	128	125 k	10 years	248	16	● / ● / ●	2	8	4	12	–	6	–	–	–	–	–	–	–	–/–	ASIL-D	Full eVita	●	● (8 bit)		
SAK-TC336DA-32F300S	300	125	BGA-180 (0.8 mm)	2	20 years	128	125 k	10 years	1576	16	– / ● / ●	2	4	4	5	–	6	–	–	–	–	–	1	–	1/1	ASIL-D	Full eVita	●	● (8 bit)		
SAK-TC336DA-32F200S	200	125	BGA-180 (0.8 mm)	2	20 years	128	125 k	10 years	1576	16	– / ● / ●	2	4	4	5	–	6	–	–	–	–	–	1	–	1/1	ASIL-D	Full eVita	●	● (8 bit)		
SAK/L-TC334LP-32F300F	300	125–150	TQFP-144 (0.4 mm)	2	20 years	128	125 k	10 years	248	16	● / ● / ●	2	8	4	12	–	6	–	–	–	–	–	–	–	–/–	ASIL-D	Full eVita	●	● (8 bit)		
SAK/L-TC333LP-32F300F	300	125–150	TQFP-100 (0.4 mm)	2	20 years	128	125 k	10 years	248	16	● / ● / ●	2	6	4	5	–	6	–	–	–	–	–	–	–	–/–	ASIL-D	Full eVita	●	● (8 bit)		
SAK/L-TC332LP-32F300F	300	125–150	TQFP-80 (0.4 mm)	2	20 years	128	125 k	10 years	248	16	● / ● / ●	2	6	4	5	–	6	–	–	–	–	–	–	–	–/–	ASIL-D	Full eVita	●	● (8 bit)		
SAK/L-TC332LP-32F200F	200	125–150	TQFP-80 (0.4 mm)	2	20 years	128	125 k	10 years	248	16	● / ● / ●	2	6	4	5	–	6	–	–	–	–	–	–	–	–/–	ASIL-D	Full eVita	●	● (8 bit)		
SAK/L-TC327LP-16F160S	160	125–150	LFBGA-292 (0.8 mm)	1	20 years	96	125 k	10 years	152	16	● / ● / ●	2	8	4	4	–	6	–	–	–	–	–	–	–	–/–	ASIL-D	Full eVita	●	● (8 bit)		
SAK/L-TC324LP-16F160F	160	125–150	TQFP-144 (0.4 mm)	1	20 years	96	125 k	10 years	152	16	● / ● / ●	2	8	4	4	–	6	–	–	–	–	–	–	–	–/–	ASIL-D	Full eVita	●	● (8 bit)		
SAK/L-TC323LP-16F160F	160	125–150	TQFP-100 (0.4 mm)	1	20 years	96	125 k	10 years	152	16	● / ● / ●	2	6	4	4	–	6	–	–	–	–	–	–	–	–/–	ASIL-D	Full eVita	●	● (8 bit)		
SAK/L-TC322LP-16F160F	160	125–150	TQFP-80 (0.4 mm)	1	20 years	96	125 k	10 years	152	16	● / ● / ●	2	6	4	4	–	6	–	–	–	–	–	–	–	–/–	ASIL-D	Full eVita	●	● (8 bit)		

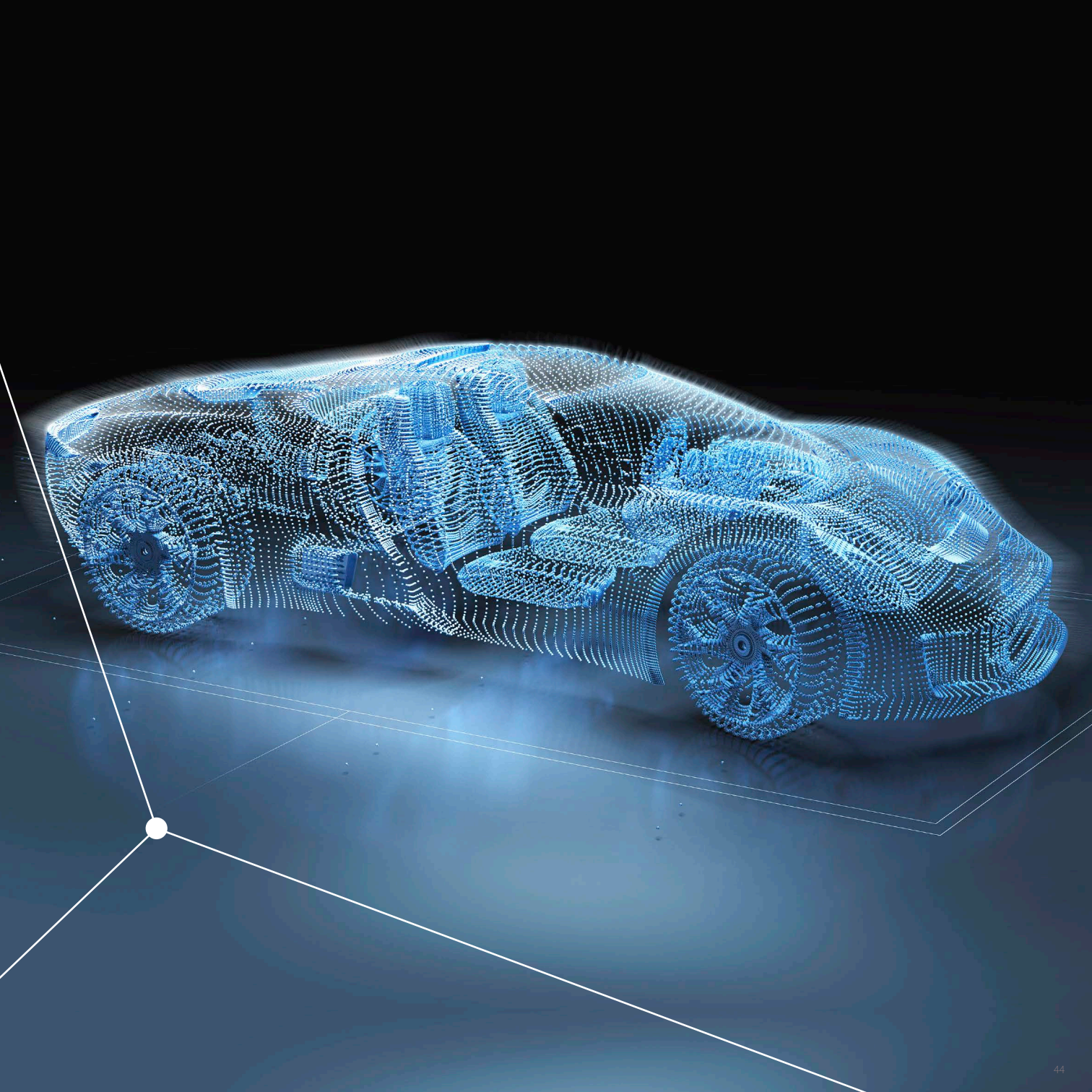
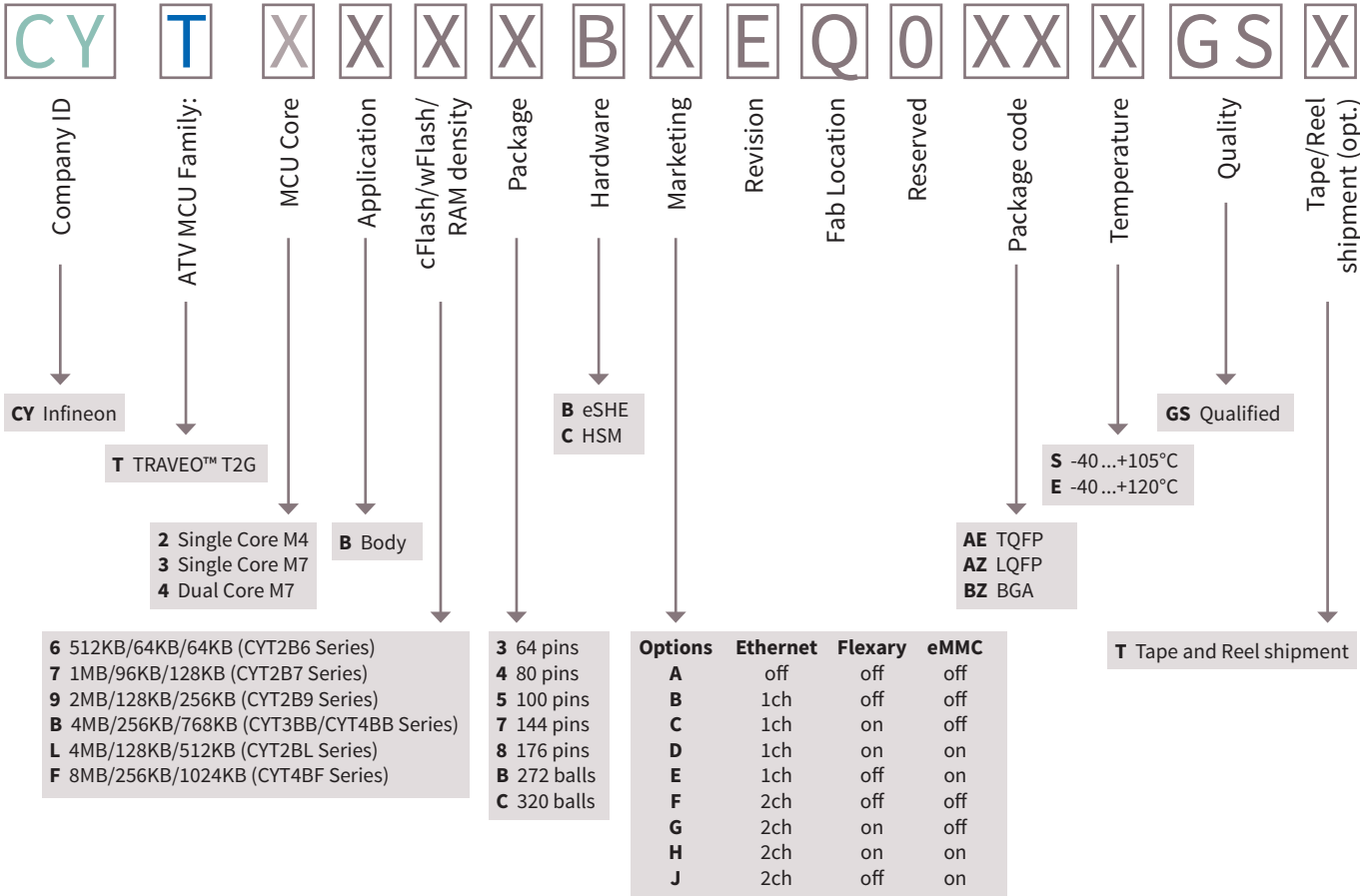
ASC = Asynchronous Serial Channel
EVR = Embedded Voltage Regulator

MSC = Micro Second Channel
SENT = Single Edge Nibble Transmission

Ambient temperature range:
K = -40 ... 125°C, L = -40 ... 150°C

TRAVEO™ T2G Microcontroller

TRAVEO™ T2G Body decoder



TRAVEO™ T2G Body

Product type/partnumber																																										
CMT2B7 Series	Package	Pin count	GPIO	Smart IO	Main core type/Crypto core type – CM4F (Single core with FPU) – CMT7F (Single core with FPU) – CMT7F_D (Dual core with FPU)	Main Core frequency [MHz]	FPU	MPU	PPU	DMA (P-DMA0/P-DMA1/M-DMA0)	RC-OSC	Hardware Watchdog	RTC channel	Temperature sensor	Debug Interface	Supply voltage [V]	Operating temperature range T _A [°C] -S: -40 to 105°C -E: -40 to 125°C	Code Flash [KB]	Work Flash [KB]	SRAM [KB]	ADC Channel	32-bit TCPWM	16-bit TCPWM	16-bit TCPWM (Motor control)	SCB channel	LIN channel	CAN FD channel	CXP1 channel	I ² S channel	Ethernet channel	Ethernet speed	FlexRay channel	eMMC channel	eMMC IO speed	SMIF (SPI/HyperBus)	SMIF speed	External Interrupt channel	SIL level	Flash Security	eSHE/HSM		
	CYT2B77CADQ0AZSGS	LQFP-144	144	122	29 (5 port)	CM4F/CM0+	160	Single precision	●	●	89/33/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	1088	96	128	54	4	63	12	8	8	6	0	N/A	0	N/A	0	0	N/A	N/A	N/A	122	ASIL-B	●	HSM	
	CYT2B77CADQ0AZE	LQFP-144	144	122	29 (5 port)	CM4F/CM0+	160	Single precision	●	●	89/33/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	1088	96	128	54	4	63	12	8	8	6	0	N/A	0	N/A	0	0	N/A	N/A	N/A	122	ASIL-B	●	HSM	
	CYT2B78BADQ0AZSGS	LQFP-176	176	152	36 (5 port)	CM4F/CM0+	160	Single precision	●	●	89/33/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	1088	96	128	64	4	63	12	8	8	6	0	N/A	0	N/A	0	0	N/A	N/A	N/A	152	ASIL-B	●	eSHE	
	CYT2B78BADQ0AZE	LQFP-176	176	152	36 (5 port)	CM4F/CM0+	160	Single precision	●	●	89/33/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	1088	96	128	64	4	63	12	8	8	6	0	N/A	0	N/A	0	0	N/A	N/A	N/A	152	ASIL-B	●	eSHE	
	CYT2B78CADQ0AZSGS	LQFP-176	176	152	36 (5 port)	CM4F/CM0+	160	Single precision	●	●	89/33/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	1088	96	128	64	4	63	12	8	8	6	0	N/A	0	N/A	0	0	N/A	N/A	N/A	152	ASIL-B	●	HSM	
	CYT2B78CADQ0AZE	LQFP-176	176	152	36 (5 port)	CM4F/CM0+	160	Single precision	●	●	89/33/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	1088	96	128	64	4	63	12	8	8	6	0	N/A	0	N/A	0	0	N/A	N/A	N/A	152	ASIL-B	●	HSM	
	CMT2L9 Series																																									
	CYT2B93BACQ0AZSGS	LQFP-64	64	49	9 (3 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	2112	128	256	27	8	63	11	7	7	5	2	N/A	0	N/A	0	0	N/A	N/A	N/A	49	ASIL-B	●	eSHE	
	CYT2B93BACQ0AZE	LQFP-64	64	49	9 (3 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	2112	128	256	27	8	63	11	7	7	5	2	N/A	0	N/A	0	0	N/A	N/A	N/A	49	ASIL-B	●	eSHE	
CYT2B93CACQ0AZSGS	LQFP-64	64	49	9 (3 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	2112	128	256	27	8	63	11	7	7	5	2	N/A	0	N/A	0	0	N/A	N/A	N/A	49	ASIL-B	●	HSM		
CYT2B93CACQ0AZE	LQFP-64	64	49	9 (3 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	2112	128	256	27	8	63	11	7	7	5	2	N/A	0	N/A	0	0	N/A	N/A	N/A	49	ASIL-B	●	HSM		
CYT2B94BACQ0AZSGS	LQFP-80	80	63	14 (3 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	2112	128	256	34	8	63	12	8	9	7	3	N/A	0	N/A	0	0	N/A	N/A	N/A	63	ASIL-B	●	eSHE		
CYT2B94BACQ0AZE	LQFP-80	80	63	14 (3 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	2112	128	256	34	8	63	12	8	9	7	3	N/A	0	N/A	0	0	N/A	N/A	N/A	63	ASIL-B	●	eSHE		
CYT2B94CACQ0AZSGS	LQFP-80	80	63	14 (3 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	2112	128	256	34	8	63	12	8	9	7	3	N/A	0	N/A	0	0	N/A	N/A	N/A	63	ASIL-B	●	HSM		
CYT2B94CACQ0AZE	LQFP-80	80	63	14 (3 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	2112	128	256	34	8	63	12	8	9	7	3	N/A	0	N/A	0	0	N/A	N/A	N/A	63	ASIL-B	●	HSM		
CYT2B95BACQ0AZSGS	LQFP-100	100	78	20 (4 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	2112	128	256	39	8	63	12	8	9	8	4	N/A	0	N/A	0	0	N/A	N/A	N/A	78	ASIL-B	●	eSHE		
CYT2B95BACQ0AZE	LQFP-100	100	78	20 (4 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	2112	128	256	39	8	63	12	8	9	8	4	N/A	0	N/A	0	0	N/A	N/A	N/A	78	ASIL-B	●	eSHE		
CYT2B95CACQ0AZSGS	LQFP-100	100	78	20 (4 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	2112	128	256	39	8	63	12	8	9	8	4	N/A	0	N/A	0	0	N/A	N/A	N/A	78	ASIL-B	●	HSM		
CYT2B95CACQ0AZE	LQFP-100	100	78	20 (4 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	2112	128	256	39	8	63	12	8	9	8	4	N/A	0	N/A	0	0	N/A	N/A	N/A	78	ASIL-B	●	HSM		
CYT2B97BACQ0AZSGS	LQFP-144	144	122	29 (5 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	2112	128	256	54	8	63	12	8	12	8	4	N/A	0	N/A	0	0	N/A	N/A	N/A	122	ASIL-B	●	eSHE		
CYT2B97BACQ0AZE	LQFP-144	144	122	29 (5 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	2112	128	256	54	8	63	12	8	12	8	4	N/A	0	N/A	0	0	N/A	N/A	N/A	122	ASIL-B	●	eSHE		
CYT2B97CACQ0AZSGS	LQFP-144	144	122	29 (5 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	2112	128	256	54	8	63	12	8	12	8	4	N/A	0	N/A	0	0	N/A	N/A	N/A	122	ASIL-B	●	HSM		
CYT2B97CACQ0AZE	LQFP-144	144	122	29 (5 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	2112	128	256	54	8	63	12	8	12	8	4	N/A	0	N/A	0	0	N/A	N/A	N/A	122	ASIL-B	●	HSM		
CYT2B98BACQ0AZSGS	LQFP-176	176	152	36 (5 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	2112	128	256	64	8	63	12	8	12	8	4	N/A	0	N/A	0	0	N/A	N/A	N/A	152	ASIL-B	●	eSHE		
CYT2B98BACQ0AZE	LQFP-176	176	152	36 (5 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	2112	128	256	64	8	63	12	8	12	8	4	N/A	0	N/A	0	0	N/A	N/A	N/A	152	ASIL-B	●	eSHE		
CYT2B98CACQ0AZSGS	LQFP-176	176	152	36 (5 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	2112	128	256	64	8	63	12	8	12	8	4	N/A	0	N/A	0	0	N/A	N/A	N/A	152	ASIL-B	●	HSM		
CYT2B98CACQ0AZE	LQFP-176	176	152	36 (5 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	2112	128	256	64	8	63	12	8	12	8	4	N/A	0	N/A	0	0	N/A	N/A	N/A	152	ASIL-B	●	HSM		

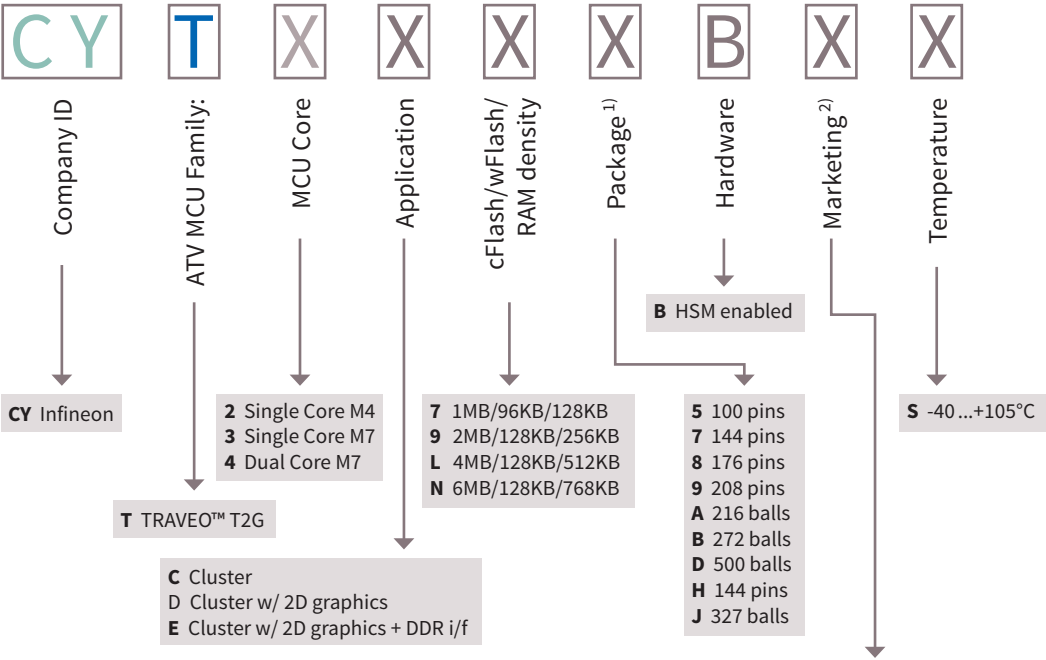
TRAVEO™ T2G Body

Product type/partnumber																																																		
	Package	Pin count	GPIO	Smart IO	Main core type/Crypto core type – CM4F (Single core with FPU) – CM7F (Single core with FPU) – CM7F_D (Dual core with FPU)	Main Core frequency [MHz]		FPU	MPU	PPU	DMA (P-DMA0/P-DMA1/M-DMA0)	RC-OSC	Hardware Watchdog	RTC channel	Temperature sensor	Debug Interface		Supply voltage [V]	Operating temperature range T _A [°C] -S: -40 to 105°C -E: -40 to 125°C		Code Flash [KB]	Work Flash [KB]	SRAM [KB]	ADC Channel	32-bit TCPWM	16-bit TCPWM	16-bit TCPWM (Motor control)	SCB channel	LIN channel	CAN FD channel	CXPI channel		I ² S channel		Ethernet channel		Ethernet speed	FlexRay channel	eMMC channel		eMMC IO speed		SMIF (SPI/HyperBus)		SMIF speed		External Interrupt channel	SIL level	Flash Security	eSHE/HSM
CYT2BL Series																																																		
CYT2BL3BAAQ0AZSGS	LQFP-64	64	49	9 (3 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	128	512	27	8	63	11	7	7	5	2	N/A				0	N/A	0	0	N/A		N/A	N/A		49	ASIL-B	●	eSHE					
CYT2BL3BAAQ0AZEGB	LQFP-64	64	49	9 (3 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	4160	128	512	27	8	63	11	7	7	5	2	N/A				0	N/A	0	0	N/A		N/A	N/A		49	ASIL-B	●	eSHE					
CYT2BL3CAAQ0AZSGS	LQFP-64	64	49	9 (3 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	128	512	27	8	63	11	7	7	5	2	N/A				0	N/A	0	0	N/A		N/A	N/A		49	ASIL-B	●	HSM					
CYT2BL3CAAQ0AZEGB	LQFP-64	64	49	9 (3 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	4160	128	512	27	8	63	11	7	7	5	2	N/A				0	N/A	0	0	N/A		N/A	N/A		49	ASIL-B	●	HSM					
CYT2BL4BAAQ0AZSGS	LQFP-80	80	63	14 (3 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	128	512	34	8	63	12	8	9	7	3	N/A				0	N/A	0	0	N/A		N/A	N/A		63	ASIL-B	●	eSHE					
CYT2BL4BAAQ0AZEGB	LQFP-80	80	63	14 (3 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	4160	128	512	34	8	63	12	8	9	7	3	N/A				0	N/A	0	0	N/A		N/A	N/A		63	ASIL-B	●	eSHE					
CYT2BL4CAAQ0AZSGS	LQFP-80	80	63	14 (3 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	128	512	34	8	63	12	8	9	7	3	N/A				0	N/A	0	0	N/A		N/A	N/A		63	ASIL-B	●	HSM					
CYT2BL4CAAQ0AZEGB	LQFP-80	80	63	14 (3 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	4160	128	512	34	8	63	12	8	9	7	3	N/A				0	N/A	0	0	N/A		N/A	N/A		63	ASIL-B	●	HSM					
CYT2BL5BAAQ0AZSGS	LQFP-100	100	78	20 (4 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	128	512	39	8	63	12	8	9	8	4	N/A				0	N/A	0	0	N/A		N/A	N/A		78	ASIL-B	●	eSHE					
CYT2BL5BAAQ0AZEGB	LQFP-100	100	78	20 (4 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	4160	128	512	39	8	63	12	8	9	8	4	N/A				0	N/A	0	0	N/A		N/A	N/A		78	ASIL-B	●	eSHE					
CYT2BL5CAAQ0AZSGS	LQFP-100	100	78	20 (4 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	128	512	39	8	63	12	8	9	8	4	N/A				0	N/A	0	0	N/A		N/A	N/A		78	ASIL-B	●	HSM					
CYT2BL5CAAQ0AZEGB	LQFP-100	100	78	20 (4 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	4160	128	512	39	8	63	12	8	9	8	4	N/A				0	N/A	0	0	N/A		N/A	N/A		78	ASIL-B	●	HSM					
CYT2BL7BAAQ0AZSGS	LQFP-144	144	122	29 (5 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	128	512	54	8	63	12	8	12	8	4	N/A				0	N/A	0	0	N/A		N/A	N/A		122	ASIL-B	●	eSHE					
CYT2BL7BAAQ0AZEGB	LQFP-144	144	122	29 (5 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	4160	128	512	54	8	63	12	8	12	8	4	N/A				0	N/A	0	0	N/A		N/A	N/A		122	ASIL-B	●	eSHE					
CYT2BL7CAAQ0AZSGS	LQFP-144	144	122	29 (5 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	128	512	54	8	63	12	8	12	8	4	N/A				0	N/A	0	0	N/A		N/A	N/A		122	ASIL-B	●	HSM					
CYT2BL7CAAQ0AZEGB	LQFP-144	144	122	29 (5 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	4160	128	512	54	8	63	12	8	12	8	4	N/A				0	N/A	0	0	N/A		N/A	N/A		122	ASIL-B	●	HSM					
CYT2BL8BAAQ0AZSGS	LQFP-176	176	152	36 (5 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	128	512	64	8	63	12	8	12	8	4	N/A				0	N/A	0	0	N/A		N/A	N/A		152	ASIL-B	●	eSHE					
CYT2BL8BAAQ0AZEGB	LQFP-176	176	152	36 (5 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	4160	128	512	64	8	63	12	8	12	8	4	N/A				0	N/A	0	0	N/A		N/A	N/A		152	ASIL-B	●	eSHE					
CYT2BL8CAAQ0AZSGS	LQFP-176	176	152	36 (5 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	128	512	64	8	63	12	8	12	8	4	N/A				0	N/A	0	0	N/A		N/A	N/A		152	ASIL-B	●	HSM					
CYT2BL8CAAQ0AZEGB	LQFP-176	176	152	36 (5 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	4160	128	512	64	8	63	12	8	12	8	4	N/A				0	N/A	0	0	N/A		N/A	N/A		152	ASIL-B	●	HSM					
CYT3BB/4BB Series																																																		
CYT3BB5CEBQ0AESGS	TQFP-100	100	72	15 (3 port)	CM7F/CM0+	250	Dual precision	●	●	100/58/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	256	768	39	7	63	12	9	9	8	0	Tx 2ch, Rx 2ch (2 instances)				1	10/100	0	1	5 V I/O at 26 MHz		1	5 V I/O at 32 MHz		72	ASIL-B	●	HSM					
CYT3BB5CEBQ0AEEGS	TQFP-100	100	72	15 (3 port)	CM7F/CM0+	250	Dual precision	●	●	100/58/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	4160	256	768	39	7	63	12	9	9	8	0	Tx 2ch, Rx 2ch (2 instances)				1	10/100	0	1	5 V I/O at 26 MHz		1	5 V I/O at 32 MHz		72	ASIL-B	●	HSM					
CYT3BB7CEBQ0AESGS	TQFP-144	144	116	27 (5 port)	CM7F/CM0+	250	Dual precision	●	●	100/58/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	256	768	54	7	63	12	10	12	8	0	Tx 3ch, Rx 3ch (3 instances)				1	10/100	0	1	5 V I/O at 26 MHz		1	5 V I/O at 32 MHz		116	ASIL-B	●	HSM					
CYT3BB7CEBQ0AEEGS	TQFP-144	144	116	27 (5 port)	CM7F/CM0+	250	Dual precision	●	●	100/58/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	4160	256	768	54	7	63	12	10	12	8	0	Tx 3ch, Rx 3ch (3 instances)				1	10/100	0	1	5 V I/O at 26 MHz		1	5 V I/O at 32 MHz		116	ASIL-B	●	HSM					
CYT3BB8CEBQ0AESGS	TQFP-176	176	148	36 (5 port)	CM7F/CM0+	250	Dual precision	●	●	100/58/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	256	768	64	8	63	12	10	16	8	0	Tx 3ch, Rx 3ch (3 instances)				1	10/100	0	1	5 V I/O at 26 MHz		1	5 V I/O at 32 MHz		148	ASIL-B	●	HSM					

TRAVEO™ T2G Body

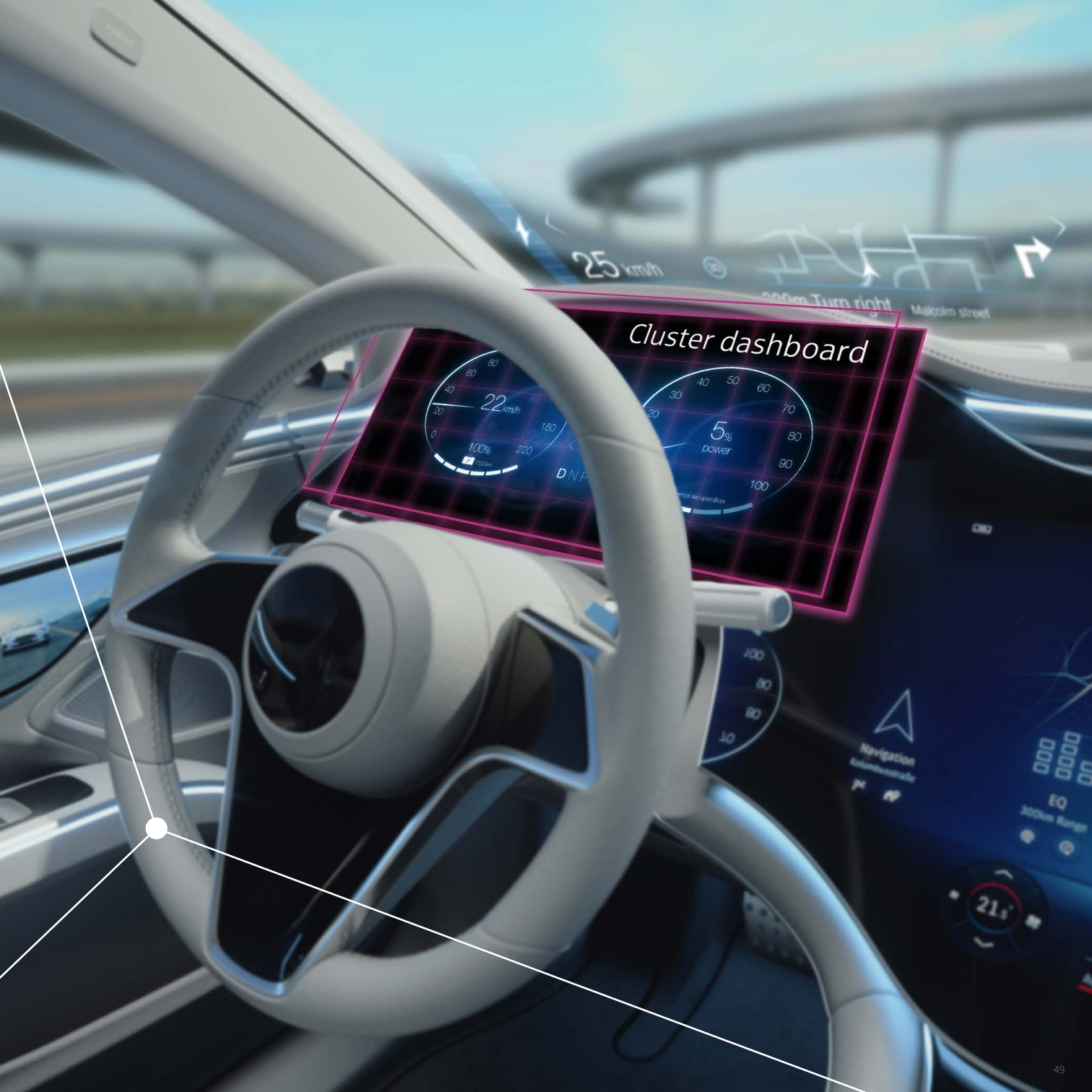
Product type/partnumber	CMT7F (Single core with FPU) / CMT7D (Dual core with FPU)																																								
	Package	Pin count	GPIO	Smart IO	Main core type / Crypto core type – CM4F (Single core with FPU) – CM7F (Single core with FPU) – CM7F_D (Dual core with FPU)	Main Core frequency [MHz]	FPU	MPU	PPU	DMA (P-DMA0 / P-DMA1 / M-DMA0)	RC-OSC	Hardware Watchdog	RTC channel	Temperature sensor	Debug interface	Supply voltage [V]	Operating temperature range T _A [°C] -S: -40 to 105°C -E: -40 to 125°C	Code Flash [KB]	Work Flash [KB]	SRAM [KB]	ADC Channel	32-bit TCPWM	16-bit TCPWM	16-bit TCPWM (Motor control)	SCB channel	LIN channel	CAN FD channel	CXP1 channel	I ² S channel	Ethernet channel	Ethernet speed	FlexRay channel	eMMC channel	eMMC IO speed	SMIF (SPI/HyperBus)	SMIF speed	External interrupt channel	SIL level	Flash Security	eSHE/HSM	
CYT3BB/4BB Series																																									
CYT3BB8CEBQ0AEEGS	TQFP-176	176	148	36 (5 port)	CM7F/CM0+	250	Dual precision	●	●	100/58/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	4160	256	768	64	8	63	12	10	16	8	0	Tx 3ch, Rx 3ch (3 instances)	1	10/100	0	1	5 V I/O at 26 MHz	1	5 V I/O at 32 MHz	148	ASIL-B	●	HSM	
CYT3BBBCEBQ0BZSGS	BGA-272	272	220	36 (5 port)	CM7F/CM0+	250	Dual precision	●	●	100/58/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	256	768	72	8	63	12	11	16	8	0	Tx 3ch, Rx 3ch (3 instances)	1	10/100	0	1	–	1	3.3 V I/O at 100 MHz	220	ASIL-B	●	HSM	
CYT3BBBCEBQ0BZEGS	BGA-272	272	220	36 (5 port)	CM7F/CM0+	250	Dual precision	●	●	100/58/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	4160	256	768	72	8	63	12	11	16	8	0	Tx 3ch, Rx 3ch (3 instances)	1	10/100	0	1	–	1	3.3 V I/O at 100 MHz	220	ASIL-B	●	HSM	
CYT4BB5CEBQ0AESGS	TQFP-100	100	72	15 (3 port)	CM7F_D/CM0+	250	Dual precision	●	●	100/58/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	256	768	39	7	63	12	9	9	8	0	Tx 2ch, Rx 2ch (2 instances)	1	10/100	0	1	5 V I/O at 26 MHz	1	5 V I/O at 32 MHz	72	ASIL-B	●	HSM	
CYT4BB5CEBQ0AEEGS	TQFP-100	100	72	15 (3 port)	CM7F_D/CM0+	250	Dual precision	●	●	100/58/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	4160	256	768	39	7	63	12	9	9	8	0	Tx 2ch, Rx 2ch (2 instances)	1	10/100	0	1	5 V I/O at 26 MHz	1	5 V I/O at 32 MHz	72	ASIL-B	●	HSM	
CYT4BB7CEBQ0AESGS	TQFP-144	144	116	27 (5 port)	CM7F_D/CM0+	250	Dual precision	●	●	100/58/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	256	768	54	7	63	12	10	12	8	0	Tx 3ch, Rx 3ch (3 instances)	1	10/100	0	1	5 V I/O at 26 MHz	1	5 V I/O at 32 MHz	116	ASIL-B	●	HSM	
CYT4BB7CEBQ0AEEGS	TQFP-144	144	116	27 (5 port)	CM7F_D/CM0+	250	Dual precision	●	●	100/58/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	4160	256	768	54	7	63	12	10	12	8	0	Tx 3ch, Rx 3ch (3 instances)	1	10/100	0	1	5 V I/O at 26 MHz	1	5 V I/O at 32 MHz	116	ASIL-B	●	HSM	
CYT4BB8CEBQ0AESGS	TQFP-176	176	148	36 (5 port)	CM7F_D/CM0+	250	Dual precision	●	●	100/58/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	256	768	64	8	63	12	10	16	8	0	Tx 3ch, Rx 3ch (3 instances)	1	10/100	0	1	5 V I/O at 26 MHz	1	5 V I/O at 32 MHz	148	ASIL-B	●	HSM	
CYT4BB8CEBQ0AEEGS	TQFP-176	176	148	36 (5 port)	CM7F_D/CM0+	250	Dual precision	●	●	100/58/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	4160	256	768	64	8	63	12	10	16	8	0	Tx 3ch, Rx 3ch (3 instances)	1	10/100	0	1	5 V I/O at 26 MHz	1	5 V I/O at 32 MHz	148	ASIL-B	●	HSM	
CYT4BBBCEBQ0BZSGS	BGA-272	272	220	36 (5 port)	CM7F_D/CM0+	250	Dual precision	●	●	100/58/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	256	768	72	8	63	12	11	16	8	0	Tx 3ch, Rx 3ch (3 instances)	1	10/100	0	1	–	1	3.3 V I/O at 100 MHz	220	ASIL-B	●	HSM	
CYT4BBBCEBQ0BZEGS	BGA-272	272	220	36 (5 port)	CM7F_D/CM0+	250	Dual precision	●	●	100/58/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	4160	256	768	72	8	63	12	11	16	8	0	Tx 3ch, Rx 3ch (3 instances)	1	10/100	0	1	–	1	3.3 V I/O at 100 MHz	220	ASIL-B	●	HSM	
CYT4BF Series																																									
CYT4BF8CEDQ0AESGS	TQFP-176	176	148	36 (5 port)	CM7F_D/CM0+	350	Dual precision	●	●	143/65/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	8384	256	1024	81	16	87	12	10	17	10	0	Tx 3ch, Rx 2ch (3 instances)	1	10/100	0	1	5 V I/O at 26 MHz	1	5 V I/O at 32 MHz	148	ASIL-B	●	HSM	
CYT4BF8CEDQ0AEEGS	TQFP-176	176	148	36 (5 port)	CM7F_D/CM0+	350	Dual precision	●	●	143/65/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	8384	256	1024	81	16	87	12	10	17	10	0	Tx 3ch, Rx 2ch (3 instances)	1	10/100	0	1	5 V I/O at 26 MHz	1	5 V I/O at 32 MHz	148	ASIL-B	●	HSM	
CYT4BF8CDDQ0AESGS	TQFP-176	176	148	36 (5 port)	CM7F_D/CM0+	350	Dual precision	●	●	143/65/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	8384	256	1024	81	16	87	12	10	17	10	0	Tx 3ch, Rx 2ch (3 instances)	1	10/100	2	1	5 V I/O at 26 MHz	1	5 V I/O at 32 MHz	148	ASIL-B	●	HSM	
CYT4BF8CDDQ0AEEGS	TQFP-176	176	148	36 (5 port)	CM7F_D/CM0+	350	Dual precision	●	●	143/65/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	8384	256	1024	81	16	87	12	10	17	10	0	Tx 3ch, Rx 2ch (3 instances)	1	10/100	2	1	5 V I/O at 26 MHz	1	5 V I/O at 32 MHz	148	ASIL-B	●	HSM	
CYT4BFBCJDQ0BZSGS	BGA-272	272	220	36 (5 port)	CM7F_D/CM0+	350	Dual precision	●	●	143/65/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	8384	256	1024	96	16	87	12	11	20	10	0	Tx 3ch, Rx 2ch (3 instances)	2	10/100/1000	0	1	–	1	3.3 V I/O at 100 MHz	220	ASIL-B	●	HSM	
CYT4BFBCJDQ0BZEGS	BGA-272	272	220	36 (5 port)	CM7F_D/CM0+	350	Dual precision	●	●	143/65/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	8384	256	1024	96	16	87	12	11	20	10	0	Tx 3ch, Rx 2ch (3 instances)	2	10/100/1000	0	1	–	1	3.3 V I/O at 100 MHz	220	ASIL-B	●	HSM	
CYT4BFBCHDQ0BZSGS	BGA-272	272	220	36 (5 port)	CM7F_D/CM0+	350	Dual precision	●	●	143/65/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	8384	256	1024	96	16	87	12	11	20	10	0	Tx 3ch, Rx 2ch (3 instances)	2	10/100/1000	2	1	–	1	3.3 V I/O at 100 MHz	220	ASIL-B	●	HSM	
CYT4BFBCHDQ0BZEGS	BGA-272	272	220	36 (5 port)	CM7F_D/CM0+	350	Dual precision	●	●	143/65/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	8384	256	1024	96	16	87	12	11	20	10	0	Tx 3ch, Rx 2ch (3 instances)	2	10/100/1000	2	1	–	1	3.3 V I/O at 100 MHz	220	ASIL-B	●	HSM	
CYT4BFCCJDQ0BZSGS	320-BGA	320	240	36 (5 port)	CM7F_D/CM0+	350	Dual precision	●	●	143/65/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	8384	256	1024	96	16	87	12	11	20	10	0	Tx 3ch, Rx 2ch (3 instances)	2	10/100/1000	0	1	–	1	3.3 V I/O at 100 MHz	240	ASIL-B	●	HSM	
CYT4BFCCJDQ0BZEGS	320-BGA	320	240	36 (5 port)	CM7F_D/CM0+	350	Dual precision	●	●	143/65/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	8384	256	1024	96	16	87	12	11	20	10	0	Tx 3ch, Rx 2ch (3 instances)	2	10/100/1000	0	1	–	1	3.3 V I/O at 100 MHz	240	ASIL-B	●	HSM	
CYT4BFCCHDQ0BZSGS	320-BGA	320	240	36 (5 port)	CM7F_D/CM0+	350	Dual precision	●	●	143/65/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	8384	256	1024	96	16	87	12	11	20	10	0	Tx 3ch, Rx 2ch (3 instances)	2	10/100/1000	2	1	–	1	3.3 V I/O at 100 MHz	240	ASIL-B	●	HSM	
CYT4BFCCHDQ0BZEGS	320-BGA	320	240	36 (5 port)	CM7F_D/CM0+	350	Dual precision	●	●	143/65/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	8384	256	1024	96	16	87	12	11	20	10	0	Tx 3ch, Rx 2ch (3 instances)	2	10/100/1000	2	1	–	1	3.3 V I/O at 100 MHz	240	ASIL-B	●	HSM	

TRAVEO™ T2G Cluster decoder



Marketing	JPG decoder	DAC	MIPI	Device option	CYT2C	CYT3C	CYT3D	CYT4D	CYT4E	Device	Allowed device options	
											No	Yes
A	no	no	no	no	X	X	X	X	X	CYT2C9xxx	No device options	
B	no	no	no	yes		X	X	X		CYT2CLxxx	No device options	
C	no	no	yes	no			X	X	X	CYT3CLxxx	No Video-out	Simple Video-out
D	no	no	yes	yes			X	X		CYT3DLxxx	1 x Video-out	2 x Video-out
E	no	yes	no	no		X	X	X	X	CYT4DNxxx	1x SMIF	2x SMIF
F	no	yes	no	yes		X	X	X		CYT4ENxxx	No device options	
G	no	yes	yes	no			X	X	X			
H	no	yes	yes	yes			X	X				
J	yes	no	no	no				X	X			
K	yes	no	no	yes				X				
L	yes	no	yes	no				X	X			
M	yes	no	yes	yes				X				
N	yes	yes	no	no				X	X			
P	yes	yes	no	yes				X				
Q	yes	yes	yes	no				X	X			
R	yes	yes	yes	yes				X				

1) Not all package options are available for all devices
2) Depending on the package not all options shown here are actually available



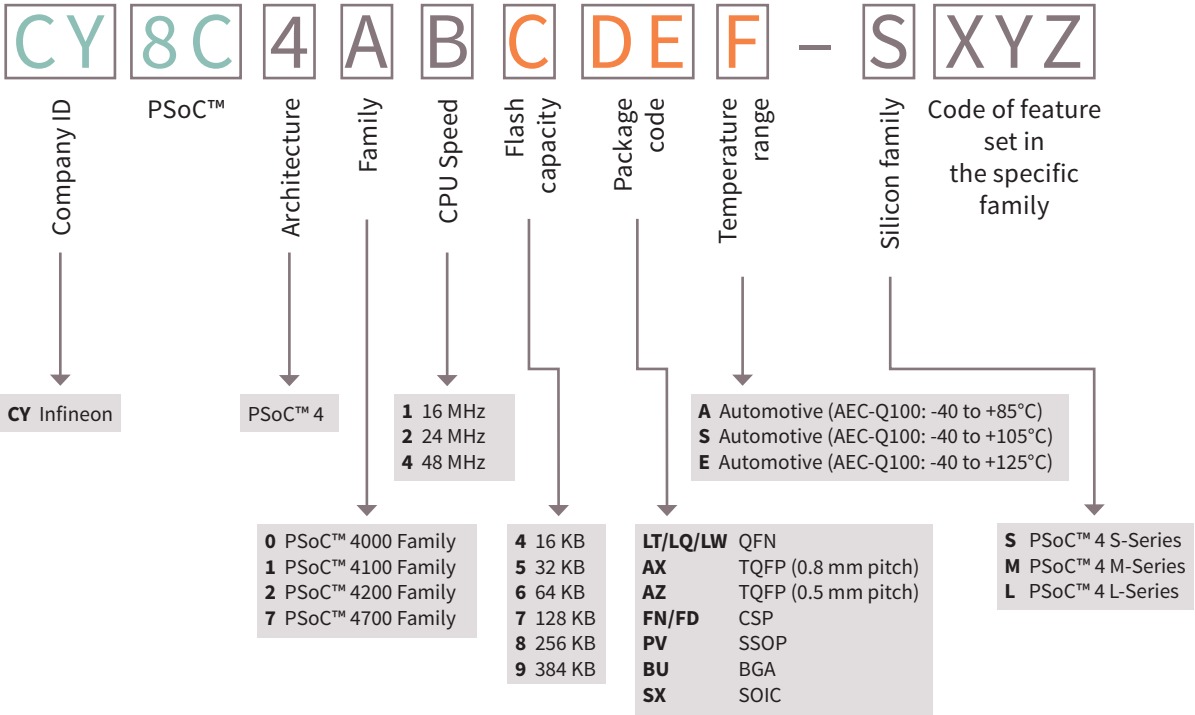
TRAVEO™ T2G Cluster

Product type/partnumber																																																						
	Package	Pin count	GPIO	Smart IO	Main core type/ Crypto core type - CM7F (Single core with FPU) - CM7E (Single core with FPU) - CM7F_D (Dual core with FPU)	Main Core frequency [MHz]		FPU	MPU	PPU	DMA (P-DMA0/P-DMA1/M-DMA0)	RC-OSC	Hardware Watchdog	RTC channel	Temperature sensor	Debug Interface		Supply voltage [V]	Operating temperature range T _A [°C] -S: -40 to 105°C -E: -40 to 125°C	Code Flash [KB]	Work Flash [KB]	SRAM [KB]	ADC Channel	32-bit TCPWM	16-bit TCPWM	16-bit TCPWM (Motor control)	SCB channel	LIN channel	CAN FD channel	CXPI channel	I ² S channel	Ethernet channel		Ethernet speed	FlexRay channel	eMMC channel	eMMC IO speed	SMIF (SPI/HyperBus)	SMIF speed [MHz]	External Interrupt channel	MIPID-PHY	LVDS TX PHY	LPDDR4/DDR3 PHY	Graphics	2.5 D Engine (IRIS on-the-fly)	Video-In	Video-out	Drawing engine	VRAM [MB]	VRAM Protection	JPEG decoder	SIL level	Flash security	eSHE/HSM
TRAVEO™ T2G CYT4DN Series																																																						
CYT4DNJBACQ1BZSGS	BGA-327	327	168	8 (1port)	ARM_CM7F_D/CM0+	320	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	6336	128	640	48	32	50	0	12	2	4	2	4	1	10/100/1000	0	0	N/A	1	200	168	0	2 x single/1 x dual	N/A	●	●	1	2	●	4	●	0	ASIL-B	●	HSM			
CYT4DNJBBCQ1BZSGS	BGA-327	327	168	8 (1port)	ARM_CM7F_D/CM0+	320	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	6336	128	640	48	32	50	0	12	2	4	2	4	1	10/100/1000	0	0	N/A	2	200	168	0	2 x single/1 x dual	N/A	●	●	1	2	●	4	●	0	ASIL-B	●	HSM			
CYT4DNJBCCQ1BZSGS	BGA-327	327	168	8 (1port)	ARM_CM7F_D/CM0+	320	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	6336	128	640	48	32	50	0	12	2	4	2	4	1	10/100/1000	0	0	N/A	1	200	168	1	2 x single/1 x dual	N/A	●	●	1	2	●	4	●	0	ASIL-B	●	HSM			
CYT4DNJBDCQ1BZSGS	BGA-327	327	168	8 (1port)	ARM_CM7F_D/CM0+	320	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	6336	128	640	48	32	50	0	12	2	4	2	4	1	10/100/1000	0	0	N/A	2	200	168	1	2 x single/1 x dual	N/A	●	●	1	2	●	4	●	0	ASIL-B	●	HSM			
CYT4DNJBECQ1BZSGS	BGA-327	327	168	8 (1port)	ARM_CM7F_D/CM0+	320	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	6336	128	640	48	32	50	0	12	2	4	2	4	1	10/100/1000	0	0	N/A	1	200	168	0	2 x single/1 x dual	N/A	●	●	1	2	●	4	●	0	ASIL-B	●	HSM			
CYT4DNJBFCQ1BZSGS	BGA-327	327	168	8 (1port)	ARM_CM7F_D/CM0+	320	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	6336	128	640	48	32	50	0	12	2	4	2	4	1	10/100/1000	0	0	N/A	2	200	168	0	2 x single/1 x dual	N/A	●	●	1	2	●	4	●	0	ASIL-B	●	HSM			
CYT4DNJBGCQ1BZSGS	BGA-327	327	168	8 (1port)	ARM_CM7F_D/CM0+	320	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	6336	128	640	48	32	50	0	12	2	4	2	4	1	10/100/1000	0	0	N/A	1	200	168	1	2 x single/1 x dual	N/A	●	●	1	2	●	4	●	0	ASIL-B	●	HSM			
CYT4DNJBHCQ1BZSGS	BGA-327	327	168	8 (1port)	ARM_CM7F_D/CM0+	320	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	6336	128	640	48	32	50	0	12	2	4	2	4	1	10/100/1000	0	0	N/A	2	200	168	1	2 x single/1 x dual	N/A	●	●	1	2	●	4	●	0	ASIL-B	●	HSM			
CYT4DNJBQCQ1BZSGS	BGA-327	327	168	8 (1port)	ARM_CM7F_D/CM0+	320	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	6336	128	640	48	32	50	0	12	2	4	2	4	1	10/100/1000	0	0	N/A	1	200	168	0	2 x single/1 x dual	N/A	●	●	1	2	●	4	●	1	ASIL-B	●	HSM			
CYT4DNJBKCCQ1BZSGS	BGA-327	327	168	8 (1port)	ARM_CM7F_D/CM0+	320	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	6336	128	640	48	32	50	0	12	2	4	2	4	1	10/100/1000	0	0	N/A	2	200	168	0	2 x single/1 x dual	N/A	●	●	1	2	●	4	●	1	ASIL-B	●	HSM			
CYT4DNJBLCQ1BZSGS	BGA-327	327	168	8 (1port)	ARM_CM7F_D/CM0+	320	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	6336	128	640	48	32	50	0	12	2	4	2	4	1	10/100/1000	0	0	N/A	1	200	168	1	2 x single/1 x dual	N/A	●	●	1	2	●	4	●	1	ASIL-B	●	HSM			
CYT4DNJBMCQ1BZSGS	BGA-327	327	168	8 (1port)	ARM_CM7F_D/CM0+	320	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	6336	128	640	48	32	50	0	12	2	4	2	4	1	10/100/1000	0	0	N/A	2	200	168	1	2 x single/1 x dual	N/A	●	●	1	2	●	4	●	1	ASIL-B	●	HSM			
CYT4DNJBNCQ1BZSGS	BGA-327	327	168	8 (1port)	ARM_CM7F_D/CM0+	320	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	6336	128	640	48	32	50	0	12	2	4	2	4	1	10/100/1000	0	0	N/A	1	200	168	0	2 x single/1 x dual	N/A	●	●	1	2	●	4	●	1	ASIL-B	●	HSM			
CYT4DNJBPCQ1BZSGS	BGA-327	327	168	8 (1port)	ARM_CM7F_D/CM0+	320	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	6336	128	640	48	32	50	0	12	2	4	2	4	1	10/100/1000	0	0	N/A	2	200	168	0	2 x single/1 x dual	N/A	●	●	1	2	●	4	●	1	ASIL-B	●	HSM			
CYT4DNJBQCQ1BZSGS	BGA-327	327	168	8 (1port)	ARM_CM7F_D/CM0+	320	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	6336	128	640	48	32	50	0	12	2	4	2	4	1	10/100/1000	0	0	N/A	1	200	168	1	2 x single/1 x dual	N/A	●	●	1	2	●	4	●	1	ASIL-B	●	HSM			
CYT4DNJBRCQ1BZSGS	BGA-327	327	168	8 (1port)	ARM_CM7F_D/CM0+	320	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	6336	128	640	48	32	50	0	12	2	4	2	4	1	10/100/1000	0	0	N/A	2	200	168	1	2 x single/1 x dual	N/A	●	●	1	2	●	4	●	1	ASIL-B	●	HSM			
TRAVEO™ T2G CYT3DL Series																																																						
CYT3DLBBABQ1BZSGS	BGA-272	272	135	8 (1port)	ARM_CM7F/CM0+	240	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	128	384	48	32	50	0	12	2	4	2	2	1	10/100	0	0	N/A	2	133	135	0	1 x single	N/A	●	●	1	1	●	2	●	0	ASIL-B	●	HSM			
CYT3DLBBBBQ1BZSGS	BGA-272	272	135	8 (1port)	ARM_CM7F/CM0+	240	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	128	384	48	32	50	0	12	2	4	2	2	1	10/100	0	0	N/A	2	133	135	0	1 x single	N/A	●	●	1	2	●	2	●	0	ASIL-B	●	HSM			
CYT3DLBBCBQ1BZSGS	BGA-272	272	135	8 (1port)	ARM_CM7F/CM0+	240	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	128	384	48	32	50	0	12	2	4	2	2	1	10/100	0	0	N/A	2	133	135	1	1 x single	N/A	●	●	1	1	●	2	●	0	ASIL-B	●	HSM			
CYT3DLBDBQ1BZSGS	BGA-272	272	135	8 (1port)	ARM_CM7F/CM0+	240	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	128	384	48	32	50	0	12	2	4	2	2	1	10/100	0	0	N/A	2	133	135	1	1 x single	N/A	●	●	1	2	●	2	●	0	ASIL-B	●	HSM			
CYT3DLBBEBQ1BZSGS	BGA-272	272	135	8 (1port)	ARM_CM7F/CM0+	240	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	128	384	48	32	50	0	12	2	4	2	2	1	10/100	0	0	N/A	2	133	135	0	1 x single	N/A	●	●	1	1	●	2	●	0	ASIL-B	●	HSM			
CYT3DLBBFBQ1BZSGS	BGA-272	272	135	8 (1port)	ARM_CM7F/CM0+	240	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	128	384	48	32	50	0	12	2	4	2	2	1	10/100	0	0	N/A	2	133	135	0	1 x single	N/A	●	●	1	2	●	2	●	0	ASIL-B	●	HSM			
CYT3DLBBGBQ1BZSGS	BGA-272	272	135	8 (1port)	ARM_CM7F/CM0+	240	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	128	384	48	32	50	0	12	2	4	2	2	1	10/100	0	0	N/A	2	133	135	1	1 x single	N/A	●	●	1	1	●	2	●	0	ASIL-B	●	HSM			
CYT3DLBBHBQ1BZSGS	BGA-272	272	135	8 (1port)	ARM_CM7F/CM0+	240	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	128	384	48	32	50	0	12	2	4	2	2	1	10/100	0	0	N/A	2	133	135	1	1 x single	N/A	●	●	1	2	●	2	●	0	ASIL-B	●	HSM			
CYT3DLABABQ1AESGS	TQFP-216	216	108	8 (1port)	ARM_CM7F/CM0+	240	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	128	384	48	32	50	0	12	2	4	2	2	1	10/100	0	0	N/A	2	100	108	0	1 x single	N/A	●	●	1	1	●	2	●	0	ASIL-B	●	HSM			

TRAVEO™ T2G Cluster

Product type/partnumber	TRAVELO™ T2G CYT2CL Series																																																								
	Package	Pin count	GPIO	Smart IO	Main core type/Crypto core type – CM4F (Single core with FPU) – CM7F (Single core with FPU) – CM7F_D (Dual core with FPU)	Main Core frequency [MHz]		FPU	MPU	PPU	DMA (P-DMA0/P-DMA1/M-DMA0)	RC-OSC	Hardware Watchdog	RTC channel	Temperature sensor	Debug interface		Supply voltage [V]	Operating temperature range T _A [°C] -S: -40 to 105°C -E: -40 to 125°C	Code Flash [KB]	Work Flash [KB]		SRAM [KB]	ADC Channel	32-bit TCPWM	16-bit TCPWM	16-bit TCPWM (Motor control)	SCB channel	LIN channel	CAN FD channel	CXP1 channel	I ² S channel	Ethernet channel		Ethernet speed	FlexRay channel	eMMC channel	eMMC IO speed	SMIF (SPI/HyperBus)		SMIF speed [MHz]	External Interrupt channel	MIPI D-PHY		LVDS TX PHY	LPDDR4/DDR3 PHY	Graphics	2.5 D Engine (IRIS on-the-fly)	Video-In	Video-out	Drawing engine	VRAM [MB]	VRAM Protection	JPEG decoder	SIL level	Flash security	eSHE/HSM
TRAVELO™ T2G CYT3DL Series																																																									
CYT3DLABBBQ1AESGS	TQFP-216	216	108	8 (1port)	ARM_CM7F/CM0+	240	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	128	384	48	32	50	0	12	2	4	2	2	1	10/100	0	0	N/A	2	100	108	0	1 x single	N/A	●	●	1	2	●	2	●	0	ASIL-B	●	HSM						
CYT3DLABCBQ1AESGS	TQFP-216	216	108	8 (1port)	ARM_CM7F/CM0+	240	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	128	384	48	32	50	0	12	2	4	2	2	1	10/100	0	0	N/A	2	100	108	1	1 x single	N/A	●	●	1	1	●	2	●	0	ASIL-B	●	HSM						
CYT3DLABDBQ1AESGS	TQFP-216	216	108	8 (1port)	ARM_CM7F/CM0+	240	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	128	384	48	32	50	0	12	2	4	2	2	1	10/100	0	0	N/A	2	100	108	1	1 x single	N/A	●	●	1	2	●	2	●	0	ASIL-B	●	HSM						
CYT3DLABEBQ1AESGS	TQFP-216	216	108	8 (1port)	ARM_CM7F/CM0+	240	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	128	384	48	32	50	0	12	2	4	2	2	1	10/100	0	0	N/A	2	100	108	0	1 x single	N/A	●	●	1	1	●	2	●	0	ASIL-B	●	HSM						
CYT3DLABFBQ1AESGS	TQFP-216	216	108	8 (1port)	ARM_CM7F/CM0+	240	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	128	384	48	32	50	0	12	2	4	2	2	1	10/100	0	0	N/A	2	100	108	0	1 x single	N/A	●	●	1	2	●	2	●	0	ASIL-B	●	HSM						
CYT3DLABGBQ1AESGS	TQFP-216	216	108	8 (1port)	ARM_CM7F/CM0+	240	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	128	384	48	32	50	0	12	2	4	2	2	1	10/100	0	0	N/A	2	100	108	1	1 x single	N/A	●	●	1	1	●	2	●	0	ASIL-B	●	HSM						
CYT3DLABHBQ1AESGS	TQFP-216	216	108	8 (1port)	ARM_CM7F/CM0+	240	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	128	384	48	32	50	0	12	2	4	2	2	1	10/100	0	0	N/A	2	100	108	1	1 x single	N/A	●	●	1	2	●	2	●	0	ASIL-B	●	HSM						
CYT3DL9BABQ1AESGS	TQFP-208	208	102	8 (1port)	ARM_CM7F/CM0+	240	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	128	384	48	32	50	0	12	2	4	2	2	1	10/100	0	0	N/A	2	100	102	0	1 x single	N/A	●	●	1	1	●	2	●	0	ASIL-B	●	HSM						
CYT3DL9BBBQ1AESGS	TQFP-208	208	102	8 (1port)	ARM_CM7F/CM0+	240	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	128	384	48	32	50	0	12	2	4	2	2	1	10/100	0	0	N/A	2	100	102	0	1 x single	N/A	●	●	1	2	●	2	●	0	ASIL-B	●	HSM						
CYT3DL9BCBQ1AESGS	TQFP-208	208	102	8 (1port)	ARM_CM7F/CM0+	240	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	128	384	48	32	50	0	12	2	4	2	2	1	10/100	0	0	N/A	2	100	102	1	1 x single	N/A	●	●	1	1	●	2	●	0	ASIL-B	●	HSM						
CYT3DL9BDBQ1AESGS	TQFP-208	208	102	8 (1port)	ARM_CM7F/CM0+	240	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	128	384	48	32	50	0	12	2	4	2	2	1	10/100	0	0	N/A	2	100	102	1	1 x single	N/A	●	●	1	2	●	2	●	0	ASIL-B	●	HSM						
CYT3DL9BEBQ1AESGS	TQFP-208	208	102	8 (1port)	ARM_CM7F/CM0+	240	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	128	384	48	32	50	0	12	2	4	2	2	1	10/100	0	0	N/A	2	100	102	0	1 x single	N/A	●	●	1	1	●	2	●	0	ASIL-B	●	HSM						
CYT3DL9BFBQ1AESGS	TQFP-208	208	102	8 (1port)	ARM_CM7F/CM0+	240	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	128	384	48	32	50	0	12	2	4	2	2	1	10/100	0	0	N/A	2	100	102	0	1 x single	N/A	●	●	1	2	●	2	●	0	ASIL-B	●	HSM						
CYT3DL9BGBQ1AESGS	TQFP-208	208	102	8 (1port)	ARM_CM7F/CM0+	240	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	128	384	48	32	50	0	12	2	4	2	2	1	10/100	0	0	N/A	2	100	102	1	1 x single	N/A	●	●	1	1	●	2	●	0	ASIL-B	●	HSM						
CYT3DL9BHBQ1AESGS	TQFP-208	208	102	8 (1port)	ARM_CM7F/CM0+	240	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	128	384	48	32	50	0	12	2	4	2	2	1	10/100	0	0	N/A	2	100	102	1	1 x single	N/A	●	●	1	2	●	2	●	0	ASIL-B	●	HSM						
TRAVELO™ T2G CYT2CL Series																																																									
CYT2C97BAAQ0AZSGS	LQFP-144	144	108	8 (1port)	ARM_CM4F/CM0+	160	Double prec.	●	●	76/84/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	2112	128	256	48	16	46	0	12	2	4	2	2	0	N/A	0	0	N/A	1	100	108	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	ASIL-B	●	HSM				
CYT2C9HBAAQ0AZSGS	LQFP-144	144 0.4mm	108	8 (1port)	ARM_CM4F/CM0+	160	Double prec.	●	●	76/84/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	2112	128	256	48	16	46	0	12	2	4	2	2	0	N/A	0	0	N/A	1	100	108	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	ASIL-B	●	HSM					
CYT2C98BAAQ0AZSGS	LQFP-144	176	140	8 (1port)	ARM_CM4F/CM0+	160	Double prec.	●	●	76/84/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	2112	128	256	48	16	46	0	12	2	4	2	2	0	N/A	0	0	N/A	1	100	140	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	ASIL-B	●	HSM						
CYT2CL7BAAQ0AZSGS	LQFP-144	144	108	8 (1port)	ARM_CM4F/CM0+	160	Double prec.	●	●	76/84/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	128	512	48	16	46	0	12	2	4	2	2	0	N/A	0	0	N/A	1	100	108	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	ASIL-B	●	HSM							
CYT2CLHBAAQ0AZSGS	LQFP-144	144 0.4mm	108	8 (1port)	ARM_CM4F/CM0+	160	Double prec.	●	●	76/84/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	128	512	48	16	46	0	12	2	4	2	2	0	N/A	0	0	N/A	1	100	108	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	ASIL-B	●	HSM							
CYT2CL8BAAQ0AZSGS	LQFP-176	176	140	8 (1port)	ARM_CM4F/CM0+	160	Double prec.	●	●	76/84/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	128	512	48	16	46	0	12	2	4	2	2	0	N/A	0	0	N/A	1	100	140	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	ASIL-B	●	HSM							

Automotive PSoC™ 4 decoder



Automotive PSoC™ 4 Series

Product type/partnumber	Features																				Packages														Operating Temperature			
	Max. CPU Speed [MHz]	Flash [KB]	SRAM [KB]	UDB	Op Amp [CTBm]	CapSense	I ² S	Direct LCD drive	12-bit SAR ADC	LP comparators	TCPWM blocks	SCB blocks	WCO	ECO	Smart IOs	CAN	CAN-FD	CRYPTO	CXPI	GPIO	SOIC-16	SSOP-20	QFN-24	SSOP-28	QFN-32	QFN-40	QFN-48	TQFP-48	QFN-56	WQFN-64	TQFP-64	TQFP-80	TQFP-100	-40 to +85°C	-40 to +105°C	-40 to +125°C		
PSoC™ 4000 Series																																						
CY8C4014SXA-421Z	16	16	2	–	–	●	–	–	–	1	1	1	–	–	–	–	–	–	–	10	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	
CY8C4014LQA-422Z	16	16	2	–	–	●	–	–	–	1	1	1	–	–	–	–	–	–	–	16	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	
CY8C4014SXS-421Z	16	16	2	–	–	●	–	–	–	1	1	1	–	–	–	–	–	–	–	10	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	
CY8C4014LQS-422Z	16	16	2	–	–	●	–	–	–	1	1	1	–	–	–	–	–	–	–	16	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	
CY8C4014SXE-421Z	16	16	2	–	–	●	–	–	–	1	1	1	–	–	–	–	–	–	–	10	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	
CY8C4014LQE-422Z	16	16	2	–	–	●	–	–	–	1	1	1	–	–	–	–	–	–	–	16	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●	
PSoC™ 4100 Series																																						
CY8C4124PVA-442Z	24	16	4	–	1	●	–	●	806 Ksps	2	4	2	–	–	–	–	–	–	–	24	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–	–	
CY8C4125PVA-482Z	24	32	4	–	1	●	–	●	806 Ksps	2	4	2	–	–	–	–	–	–	–	24	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–	–	
CY8C4124PVS-442Z	24	16	4	–	1	●	–	●	806 Ksps	2	4	2	–	–	–	–	–	–	–	24	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	
CY8C4125PVS-482Z	24	32	4	–	1	●	–	●	806 Ksps	2	4	2	–	–	–	–	–	–	–	24	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	
PSoC™ 4200 Series																																						
CY8C4244PVA-442Z	48	16	4	2	1	●	–	●	1000 Ksps	2	4	2	–	–	–	–	–	–	–	24	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–	–	
CY8C4245PVA-452Z	48	32	4	4	–	–	–	●	–	0	4	2	–	–	–	–	–	–	–	24	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–	–	
CY8C4245PVA-472Z	48	32	4	4	1	–		●	1000Ksps	2	4	2	–	–	–	–	–	–	–	24				●									●	–	–			
CY8C4245PVA-482Z	48	32	4	4	1	●	–	●	1000 Ksps	2	4	2	–	–	–	–	–	–	–	24	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–	–	
CY8C4244PVS-442Z	48	16	4	2	1	●	–	●	1000 Ksps	2	4	2	–	–	–	–	–	–	–	24	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	
CY8C4245PVS-452Z	48	32	4	4	–	–	–	●	–	0	4	2	–	–	–	–	–	–	–	24	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	
CY8C4245PVS-472Z	48	32	4	4	1	–	–	●	1000 Ksps	2	4	2	–	–	–	–	–	–	–	24	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	
CY8C4245PVS-482Z	48	32	4	4	1	●	–	●	1000 Ksps	2	4	2	–	–	–	–	–	–	–	24	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	

Automotive PSoC™ 4 S-Series

Product type/partnumber	Features																				Packages														Operating Temperature			
	Max. CPU Speed [MHz]	Flash [KB]	SRAM [KB]	UDB	Op Amp [CTBm]	CapSense	I ² S	Direct LCD drive	12-bit SAR ADC	LP comparators	TCPWM blocks	SCB blocks	WCO	ECO	Smart IOs	CAN	CAN-FD	CRYPTO	CXPI	GPIO	SOIC-16	SSOP-20	QFN-24	SSOP-28	QFN-32	QFN-40	QFN-48	TQFP-48	QFN-56	WQFN-64	TQFP-64	TQFP-80	TQFP-100	-40 to +85°C	-40 to +105°C	-40 to +125°C		
PSoC™ 4000S-Series																																						
CY8C4024LQA-S413KA	24	16	2	–	–	●	–	–	–	2	5	2	–	–	–	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–	–	
CY8C4025LQA-S413KA	24	32	4	–	–	●	–	–	–	2	5	2	–	–	–	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–	–	
CY8C4045LQA-S413KA	48	32	4	–	–	●	–	–	–	2	5	2	–	–	–	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–	–	
CY8C4024LQS-S413KA	24	16	2	–	–	●	–	–	–	2	5	2	–	–	–	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●	–	
CY8C4025LQS-S413KA	24	32	4	–	–	●	–	–	–	2	5	2	–	–	–	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●	–	
CY8C4045LQS-S413KA	48	32	4	–	–	●	–	–	–	2	5	2	–	–	–	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●	–	
CY8C4024LQE-S413KA	24	16	2	–	–	●	–	–	–	2	5	2	–	–	–	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	
CY8C4025LQE-S413KA	24	32	4	–	–	●	–	–	–	2	5	2	–	–	–	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	
CY8C4045LQE-S413KA	48	32	4	–	–	●	–	–	–	2	5	2	–	–	–	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	
CY8C4024LDA-S413KA	24	16	2	–	–	●	–	–	–	2	5	2	–	–	–	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–	
CY8C4025LDA-S413KA	24	32	4	–	–	●	–	–	–	2	5	2	–	–	–	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–	
CY8C4045LDA-S413KA	48	32	4	–	–	●	–	–	–	2	5	2	–	–	–	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–	
CY8C4024LDS-S413KA	24	16	2	–	–	●	–	–	–	2	5	2	–	–	–	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–	
CY8C4025LDS-S413KA	24	32	4	–	–	●	–	–	–	2	5	2	–	–	–	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–	
CY8C4045LDS-S413KA	48	32	4	–	–	●	–	–	–	2	5	2	–	–	–	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–	
CY8C4024LDE-S413KA	24	16	2	–	–	●	–	–	–	2	5	2	–	–	–	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●	
CY8C4025LDE-S413KA	24	32	4	–	–	●	–	–	–	2	5	2	–	–	–	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●	
CY8C4045LDE-S413KA	48	32	4	–	–	●	–	–	–	2	5	2	–	–	–	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●	
CY8C4024LQA-S411	24	16	2	–	–	●	–	–	–	2	5	2	–	–	–	–	–	–	–	19	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	
CY8C4024PVA-S412	24	16	2	–	–	●	–	–	–	2	5	2	–	–	–	–	–	–	–	24	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–	–	
CY8C4025LQA-S411	24	32	4	–	–	●	–	–	–	2	5	2	–	–	–	–	–	–	–	19	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	
CY8C4025PVA-S412	24	32	4	–	–	●	–	–	–	2	5	2	–	–	–	–	–	–	–	24	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–	–	
CY8C4045LQA-S411	48	32	4	–	–	●	–	–	–	2	5	2	–	–	–	–	–	–	–	19	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	
CY8C4045PVA-S412	48	32	4	–	–	●	–	–	–	2	5	2	–	–	–	–	–	–	–	24	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–	–	
CY8C4024LQS-S411	24	16	2	–	–	●	–	–	–	2	5	2	–	–	–	–	–	–	–	19	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	
CY8C4024PVS-S412	24	16	2	–	–	●	–	–	–	2	5	2	–	–	–	–	–	–	–	24	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	

Automotive PSoC™ 4 S-Series

Product type/partnumber	Features																			Packages														Operating Temperature				
	Max. CPU Speed [MHz]	Flash [KB]	SRAM [KB]	UDB	Op Amp [CTBm]	CapSense	I ² S	Direct LCD drive	12-bit SAR ADC	LP comparators	TCPWM blocks	SCB blocks	WCO	ECO	Smart IOs	CAN	CAN-FD	CRYPTO	CXPI	GPIO	SOIC-16	SSOP-20	QFN-24	SSOP-28	QFN-32	QFN-40	QFN-48	TQFP-48	QFN-56	WQFN-64	TQFP-64	TQFP-80	TQFP-100	-40 to +85°C	-40 to +105°C	-40 to +125°C		
PSoC™ 4000S-Series																																						
CY8C4025LQS-S411	24	32	4	-	-	●	-	-	-	2	5	2	-	-	-	-	-	-	-	19	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	●	-	
CY8C4025PVS-S412	24	32	4	-	-	●	-	-	-	2	5	2	-	-	-	-	-	-	-	24	-	-	-	●	-	-	-	-	-	-	-	-	-	-	-	●	-	
CY8C4045LQS-S411	48	32	4	-	-	●	-	-	-	2	5	2	-	-	-	-	-	-	-	19	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	●	-	
CY8C4045PVS-S412	48	32	4	-	-	●	-	-	-	2	5	2	-	-	-	-	-	-	-	24	-	-	-	●	-	-	-	-	-	-	-	-	-	-	-	●	-	
CY8C4024LQA-S411KA	24	16	2	-	-	●	-	-	-	2	5	2	-	-	-	-	-	-	-	19	-	-	●	-	-	-	-	-	-	-	-	-	-	●	-	-		
CY8C4025LQA-S411KA	24	32	4	-	-	●	-	-	-	2	5	2	-	-	-	-	-	-	-	19	-	-	●	-	-	-	-	-	-	-	-	-	-	-	●	-	-	
CY8C4045LQA-S411KA	48	32	4	-	-	●	-	-	-	2	5	2	-	-	-	-	-	-	-	19	-	-	●	-	-	-	-	-	-	-	-	-	-	-	●	-	-	
CY8C4024LQS-S411KA	24	16	2	-	-	●	-	-	-	2	5	2	-	-	-	-	-	-	-	19	-	-	●	-	-	-	-	-	-	-	-	-	-	-	●	-	-	
CY8C4025LQS-S411KA	24	32	4	-	-	●	-	-	-	2	5	2	-	-	-	-	-	-	-	19	-	-	●	-	-	-	-	-	-	-	-	-	-	-	●	-	-	
CY8C4045LQS-S411KA	48	32	4	-	-	●	-	-	-	2	5	2	-	-	-	-	-	-	-	19	-	-	●	-	-	-	-	-	-	-	-	-	-	-	●	-	-	
CY8C4024LQE-S411KA	24	16	2	-	-	●	-	-	-	2	5	2	-	-	-	-	-	-	-	19	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	●	
CY8C4025LQE-S411KA	24	32	4	-	-	●	-	-	-	2	5	2	-	-	-	-	-	-	-	19	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	●	
CY8C4045LQE-S411KA	48	32	4	-	-	●	-	-	-	2	5	2	-	-	-	-	-	-	-	19	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	●	
PSoC™ 4100S-Series																																						
CY8C4124LQA-S411KA	24	16	4	-	2	●	-	●	-	2	5	2	-	-	16	-	-	-	-	19	-	-	●	-	-	-	-	-	-	-	-	-	-	●	-	-		
CY8C4124LQA-S421KA	24	16	4	-	2	-	-	●	806 Ksps	2	5	2	-	-	16	-	-	-	-	19	-	-	●	-	-	-	-	-	-	-	-	-	-	●	-	-		
CY8C4124LQA-S431KA	24	16	4	-	2	●	-	●	806 Ksps	2	5	2	-	-	16	-	-	-	-	19	-	-	●	-	-	-	-	-	-	-	-	-	-	●	-	-		
CY8C4125LQA-S411KA	24	32	4	-	2	●	-	●	-	2	5	2	-	-	16	-	-	-	-	19	-	-	●	-	-	-	-	-	-	-	-	-	-	●	-	-		
CY8C4125LQA-S421KA	24	32	4	-	2	-	-	●	806 Ksps	2	5	2	-	-	16	-	-	-	-	19	-	-	●	-	-	-	-	-	-	-	-	-	-	●	-	-		
CY8C4125LQA-S431KA	24	32	4	-	2	●	-	●	806 Ksps	2	5	2	-	-	16	-	-	-	-	19	-	-	●	-	-	-	-	-	-	-	-	-	-	●	-	-		
CY8C4146LQA-S421KA	48	64	8	-	2	-	-	●	1000 Ksps	2	5	3	-	-	16	-	-	-	-	19	-	-	●	-	-	-	-	-	-	-	-	-	-	●	-	-		
CY8C4146LQA-S431KA	48	64	8	-	2	●	-	●	1000 Ksps	2	5	3	-	-	16	-	-	-	-	19	-	-	●	-	-	-	-	-	-	-	-	-	-	●	-	-		
CY8C4124LQS-S411KA	24	16	4	-	2	●	-	●	-	2	5	2	-	-	16	-	-	-	-	19	-	-	●	-	-	-	-	-	-	-	-	-	-	●	-	-		
CY8C4124LQS-S421KA	24	16	4	-	2	-	-	●	806 Ksps	2	5	2	-	-	16	-	-	-	-	19	-	-	●	-	-	-	-	-	-	-	-	-	-	-	●	-	-	
CY8C4124LQS-S431KA	24	16	4	-	2	●	-	●	806 Ksps	2	5	2	-	-	16	-	-	-	-	19	-	-	●	-	-	-	-	-	-	-	-	-	-	-	●	-	-	

Automotive PSoC™ 4 S-Series

Product type/partnumber	Features																				Packages												Operating Temperature					
	Max. CPU Speed [MHz]	Flash [KB]	SRAM [KB]	UDB	Op Amp [CTBm]	CapSense	I ² S	Direct LCD drive	12-bit SAR ADC	LP comparators	TCPWM blocks	SCB blocks	WCO	ECO	Smart IOs	CAN	CAN-FD	CRYPTO	CXPI	GPIO	SOIC-16	SSOP-20	QFN-24	SSOP-28	QFN-32	QFN-40	QFN-48	TQFP-48	QFN-56	WQFN-64	TQFP-64	TQFP-80	TQFP-100	-40 to +85°C	-40 to +105°C	-40 to +125°C		
PSoC™ 4100S-Series																																						
CY8C4125LQS-S411KA	24	32	4	–	2	●	–	●	–	2	5	2	–	–	16	–	–	–	–	19	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	
CY8C4125LQS-S421KA	24	32	4	–	2	–	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	19	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	
CY8C4125LQS-S431KA	24	32	4	–	2	●	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	19	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	
CY8C4146LQS-S421KA	48	64	8	–	2	–	–	●	1000 Ksps	2	5	3	–	–	16	–	–	–	–	19	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	
CY8C4146LQS-S431KA	48	64	8	–	2	●	–	●	1000 Ksps	2	5	3	–	–	16	–	–	–	–	19	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	
CY8C4124LQE-S411KA	24	16	4	–	2	●	–	●	–	2	5	2	–	–	16	–	–	–	–	19	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●	
CY8C4124LQE-S421KA	24	16	4	–	2	–	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	19	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●	
CY8C4124LQE-S431KA	24	16	4	–	2	●	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	19	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●	
CY8C4125LQE-S411KA	24	32	4	–	2	●	–	●	–	2	5	2	–	–	16	–	–	–	–	19	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●	
CY8C4125LQE-S421KA	24	32	4	–	2	–	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	19	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●	
CY8C4125LQE-S431KA	24	32	4	–	2	●	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	19	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●	
CY8C4146LQE-S421KA	48	64	8	–	2	–	–	●	1000 Ksps	2	5	3	–	–	16	–	–	–	–	19	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●	
CY8C4146LQE-S431KA	48	64	8	–	2	●	–	●	1000 Ksps	2	5	3	–	–	16	–	–	–	–	19	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●	
CY8C4124LDA-S413KA	24	16	4	–	2	●	–	●	–	2	5	2	–	–	16	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–	
CY8C4124LDA-S423KA	24	16	4	–	2	–	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–	–
CY8C4124LDA-S433KA	24	16	4	–	2	●	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–	–
CY8C4125LDA-S413KA	24	32	4	–	2	●	–	●	–	2	5	2	–	–	16	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–	–
CY8C4125LDA-S423KA	24	32	4	–	2	–	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–	–
CY8C4125LDA-S433KA	24	32	4	–	2	●	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–	–
CY8C4146LDA-S423KA	48	64	8	–	2	–	–	●	1000 Ksps	2	5	3	–	–	16	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–	–
CY8C4146LDA-S433KA	48	64	8	–	2	●	–	●	1000 Ksps	2	5	3	–	–	16	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–	–
CY8C4124LDS-S413KA	24	16	4	–	2	●	–	●	–	2	5	2	–	–	16	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–	–
CY8C4124LDS-S423KA	24	16	4	–	2	–	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–	–
CY8C4124LDS-S433KA	24	16	4	–	2	●	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–	–
CY8C4125LDS-S413KA	24	32	4	–	2	●	–	●	–	2	5	2	–	–	16	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–	–
CY8C4125LDS-S423KA	24	32	4	–	2	–	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–	–
CY8C4125LDS-S433KA	24	32	4	–	2	●	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–	–

Automotive PSoC™ 4 S-Series

Product type/partnumber	Features																				Packages												Operating Temperature					
	Max. CPU Speed [MHz]	Flash [KB]	SRAM [KB]	UDB	Op Amp [CTBm]	CapSense	I ² S	Direct LCD drive	12-bit SAR ADC	LP comparators	TCPWM blocks	SCB blocks	WCO	ECO	Smart IOs	CAN	CAN-FD	CRYPTO	CXPI	GPIO	SOIC-16	SSOP-20	QFN-24	SSOP-28	QFN-32	QFN-40	QFN-48	TQFP-48	QFN-56	WQFN-64	TQFP-64	TQFP-80	TQFP-100	-40 to +85°C	-40 to +105°C	-40 to +125°C		
PSoC™ 4100S-Series																																						
CY8C4146LDS-S423KA	48	64	8	-	2	-	-	●	1000 Ksps	2	5	3	-	-	16	-	-	-	-	38	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●	-	
CY8C4146LDS-S433KA	48	64	8	-	2	●	-	●	1000 Ksps	2	5	3	-	-	16	-	-	-	-	38	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●	-	
CY8C4124LDE-S413KA	24	16	4	-	2	●	-	●	-	2	5	2	-	-	16	-	-	-	-	38	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	●	
CY8C4124LDE-S423KA	24	16	4	-	2	-	-	●	806 Ksps	2	5	2	-	-	16	-	-	-	-	38	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	●	
CY8C4124LDE-S433KA	24	16	4	-	2	●	-	●	806 Ksps	2	5	2	-	-	16	-	-	-	-	38	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	●	
CY8C4125LDE-S413KA	24	32	4	-	2	●	-	●	-	2	5	2	-	-	16	-	-	-	-	38	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	●	
CY8C4125LDE-S423KA	24	32	4	-	2	-	-	●	806 Ksps	2	5	2	-	-	16	-	-	-	-	38	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	●	
CY8C4125LDE-S433KA	24	32	4	-	2	●	-	●	806 Ksps	2	5	2	-	-	16	-	-	-	-	38	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	●	
CY8C4146LDE-S423KA	48	64	8	-	2	-	-	●	1000 Ksps	2	5	3	-	-	16	-	-	-	-	38	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	●	
CY8C4146LDE-S433KA	48	64	8	-	2	●	-	●	1000 Ksps	2	5	3	-	-	16	-	-	-	-	38	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	●	
CY8C4124PVA-S412	24	16	4	-	2	●	-	●	-	2	5	2	-	-	16	-	-	-	-	24	-	-	-	●	-	-	-	-	-	-	-	-	-	●	-	-		
CY8C4124LQA-S413	24	16	4	-	2	●	-	●	-	2	5	2	-	-	16	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	●	-	-		
CY8C4124PVA-S422	24	16	4	-	2	-	-	●	806 Ksps	2	5	2	-	-	16	-	-	-	-	24	-	-	-	●	-	-	-	-	-	-	-	-	-	-	●	-	-	
CY8C4124LQA-S423	24	16	4	-	2	-	-	●	806 Ksps	2	5	2	-	-	16	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●	-	-	
CY8C4124PVA-S432	24	16	4	-	2	●	-	●	806 Ksps	2	5	2	-	-	16	-	-	-	-	24	-	-	-	●	-	-	-	-	-	-	-	-	-	-	●	-	-	
CY8C4124LQA-S433	24	16	4	-	2	●	-	●	806 Ksps	2	5	2	-	-	16	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●	-	-	
CY8C4125PVA-S412	24	32	4	-	2	●	-	●	-	2	5	2	-	-	16	-	-	-	-	24	-	-	-	●	-	-	-	-	-	-	-	-	-	●	-	-		
CY8C4125LQA-S413	24	32	4	-	2	●	-	●	-	2	5	2	-	-	16	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	●	-	-		
CY8C4125PVA-S422	24	32	4	-	2	-	-	●	806 Ksps	2	5	2	-	-	16	-	-	-	-	24	-	-	-	●	-	-	-	-	-	-	-	-	-	-	●	-	-	
CY8C4125LQA-S423	24	32	4	-	2	-	-	●	806 Ksps	2	5	2	-	-	16	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●	-	-	
CY8C4125PVA-S432	24	32	4	-	2	●	-	●	806 Ksps	2	5	2	-	-	16	-	-	-	-	24	-	-	-	●	-	-	-	-	-	-	-	-	-	-	●	-	-	
CY8C4125LQA-S433	24	32	4	-	2	●	-	●	806 Ksps	2	5	2	-	-	16	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●	-	-	
CY8C4146PVA-S422	48	64	8	-	2	-	-	●	1000 Ksps	2	5	2	-	-	16	-	-	-	-	24	-	-	-	●	-	-	-	-	-	-	-	-	-	-	●	-	-	
CY8C4146LQA-S423	48	64	8	-	2	-	-	●	1000 Ksps	2	5	3	-	-	16	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●	-	-	
CY8C4146PVA-S432	48	64	8	-	2	●	-	●	1000 Ksps	2	5	3	-	-	16	-	-	-	-	24	-	-	-	●	-	-	-	-	-	-	-	-	-	-	●	-	-	
CY8C4146LQA-S433	48	64	8	-	2	●	-	●	1000 Ksps	2	5	3	-	-	16	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●	-	-	
CY8C4124PVS-S412	24	16	4	-	2	●	-	●	-	2	5	2	-	-	16	-	-	-	-	24	-	-	-	●	-	-	-	-	-	-	-	-	-	-	●	-		

Automotive PSoC™ 4 S-Series

Product type/partnumber	Features																				Packages														Operating Temperature					
	Max. CPU Speed [MHz]	Flash [KB]	SRAM [KB]	UDB	Op Amp [CTBm]	CapSense	I ² S	Direct LCD drive	12-bit SAR ADC	LP comparators	TCPWM blocks	SCB blocks	WCO	ECO	Smart I/Os	CAN	CAN-FD	CRYPTO	CXPI	GPIO	SOIC-16	SSOP-20	QFN-24	SSOP-28	QFN-32	QFN-40	QFN-48	TQFP-48	QFN-56	WQFN-64	TQFP-64	TQFP-80	TQFP-100	-40 to +85°C	-40 to +105°C	-40 to +125°C				
PSoC™ 4100S-Series																																								
CY8C4124LQS-S413	24	16	4	–	2	●	–	●	–	2	5	2	–	–	16	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●	–			
CY8C4124PVS-S422	24	16	4	–	2	–	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	24	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–		
CY8C4124LQS-S423	24	16	4	–	2	–	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–		
CY8C4124PVS-S432	24	16	4	–	2	●	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	24	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–		
CY8C4124LQS-S433	24	16	4	–	2	●	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–		
CY8C4125PVS-S412	24	32	4	–	2	●	–	●	–	2	5	2	–	–	16	–	–	–	–	24	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–			
CY8C4125LQS-S413	24	32	4	–	2	●	–	●	–	2	5	2	–	–	16	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●	–			
CY8C4125PVS-S422	24	32	4	–	2	–	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	24	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–		
CY8C4125LQS-S423	24	32	4	–	2	–	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–		
CY8C4125PVS-S432	24	32	4	–	2	●	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	24	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–		
CY8C4125LQS-S433	24	32	4	–	2	●	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–		
CY8C4146PVS-S422	48	64	8	–	2	–	–	●	1000 Ksps	2	5	2	–	–	16	–	–	–	–	24	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–		
CY8C4146LQS-S423	48	64	8	–	2	–	–	●	1000 Ksps	2	5	3	–	–	16	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–		
CY8C4146PVS-S432	48	64	8	–	2	●	–	●	1000 Ksps	2	5	3	–	–	16	–	–	–	–	24	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–		
CY8C4146LQS-S433	48	64	8	–	2	●	–	●	1000 Ksps	2	5	3	–	–	16	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–		
CY8C4124PVE-S412	24	16	4	–	2	●	–	●	–	2	5	2	–	–	16	–	–	–	–	24	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●			
CY8C4124LQE-S413	24	16	4	–	2	●	–	●	–	2	5	2	–	–	16	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●			
CY8C4124PVE-S422	24	16	4	–	2	–	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	24	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●		
CY8C4124LQE-S423	24	16	4	–	2	–	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●		
CY8C4124PVE-S432	24	16	4	–	2	●	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	24	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●		
CY8C4124LQE-S433	24	16	4	–	2	●	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●		
CY8C4125PVE-S412	24	32	4	–	2	●	–	●	–	2	5	2	–	–	16	–	–	–	–	24	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●		
CY8C4125LQE-S413	24	32	4	–	2	●	–	●	–	2	5	2	–	–	16	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●		
CY8C4125PVE-S422	24	32	4	–	2	–	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	24	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	
CY8C4125LQE-S423	24	32	4	–	2	–	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	
CY8C4125PVE-S432	24	32	4	–	2	●	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	24	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	
CY8C4125LQE-S433	24	32	4	–	2	●	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	

Automotive PSoC™ 4 S-Series

Product type/partnumber	Features																				Packages												Operating Temperature					
	Max. CPU Speed [MHz]	Flash [KB]	SRAM [KB]	UDB	Op Amp [CTBm]	CapSense	I ² S	Direct LCD drive	12-bit SAR ADC	LP comparators	TCPWM blocks	SCB blocks	WCO	ECO	Smart IOs	CAN	CAN-FD	CRYPTO	CXPI	GPIO	SOIC-16	SSOP-20	QFN-24	SSOP-28	QFN-32	QFN-40	QFN-48	TQFP-48	QFN-56	WQFN-64	TQFP-64	TQFP-80	TQFP-100	-40 to +85°C	-40 to +105°C	-40 to +125°C		
PSoC™ 4100S-Series																																						
CY8C4146PVE-S422	48	64	8	-	2	-	-	●	1000 Ksps	2	5	2	-	-	16	-	-	-	-	24	-	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	●	
CY8C4146LQE-S423	48	64	8	-	2	-	-	●	1000 Ksps	2	5	3	-	-	16	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	●	
CY8C4146PVE-S432	48	64	8	-	2	●	-	●	1000 Ksps	2	5	3	-	-	16	-	-	-	-	24	-	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	●	
CY8C4146LQE-S433	48	64	8	-	2	●	-	●	1000 Ksps	2	5	3	-	-	16	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	●	
CY8C4124LQA-S423KA	24	16	4	-	2	-	-	●	806 Ksps	2	5	2	-	-	16	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●	-	-	
CY8C4124LQA-S433KA	24	16	4	-	2	●	-	●	806 Ksps	2	5	2	-	-	16	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●	-	-	
CY8C4125LQA-S413KA	24	32	4	-	2	●	-	●	-	2	5	2	-	-	16	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●	-	-	
CY8C4125LQA-S423KA	24	32	4	-	2	-	-	●	806 Ksps	2	5	2	-	-	16	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●	-	-	
CY8C4125LQA-S433KA	24	32	4	-	2	●	-	●	806 Ksps	2	5	2	-	-	16	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●	-	-	
CY8C4146LQA-S423KA	48	64	8	-	2	-	-	●	1000 Ksps	2	5	3	-	-	16	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●	-	-	
CY8C4146LQA-S433KA	48	64	8	-	2	●	-	●	1000 Ksps	2	5	3	-	-	16	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●	-	-	
CY8C4124LQS-S413KA	24	16	4	-	2	●	-	●	-	2	5	2	-	-	16	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●	-	-	
CY8C4124LQS-S423KA	24	16	4	-	2	-	-	●	806 Ksps	2	5	2	-	-	16	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●	-	-	
CY8C4124LQS-S433KA	24	16	4	-	2	●	-	●	806 Ksps	2	5	2	-	-	16	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●	-	-	
CY8C4125LQS-S413KA	24	32	4	-	2	●	-	●	-	2	5	2	-	-	16	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●	-	-	
CY8C4125LQS-S423KA	24	32	4	-	2	-	-	●	806 Ksps	2	5	2	-	-	16	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●	-	-	
CY8C4125LQS-S433KA	24	32	4	-	2	●	-	●	806 Ksps	2	5	2	-	-	16	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●	-	-	
CY8C4146LQS-S423KA	48	64	8	-	2	-	-	●	1000 Ksps	2	5	3	-	-	16	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●	-	-	
CY8C4146LQS-S433KA	48	64	8	-	2	●	-	●	1000 Ksps	2	5	3	-	-	16	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●	-	-	
CY8C4124LQE-S413KA	24	16	4	-	2	●	-	●	-	2	5	2	-	-	16	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	●	-	
CY8C4124LQE-S423KA	24	16	4	-	2	-	-	●	806 Ksps	2	5	2	-	-	16	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	●	-	
CY8C4124LQE-S433KA	24	16	4	-	2	●	-	●	806 Ksps	2	5	2	-	-	16	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	●	-	
CY8C4125LQE-S413KA	24	32	4	-	2	●	-	●	-	2	5	2	-	-	16	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	●	-	
CY8C4125LQE-S423KA	24	32	4	-	2	-	-	●	806 Ksps	2	5	2	-	-	16	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	●	-	
CY8C4125LQE-S433KA	24	32	4	-	2	●	-	●	806 Ksps	2	5	2	-	-	16	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	●	-	
CY8C4146LQE-S423KA	48	64	8	-	2	-	-	●	1000 Ksps	2	5	3	-	-	16	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	●	-	
CY8C4146LQE-S433KA	48	64	8	-	2	●	-	●	1000 Ksps	2	5	3	-	-	16	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	●	-	

Automotive PSoC™ 4 S-Series

Product type/partnumber	Features																				Packages												Operating Temperature					
	Max. CPU Speed [MHz]	Flash [KB]	SRAM [KB]	UDB	Op Amp [CTBm]	CapSense	I ² S	Direct LCD drive	12-bit SAR ADC	LP comparators	TCPWM blocks	SCB blocks	WCO	ECO	Smart IOs	CAN	CAN-FD	CRYPTO	CXPI	GPIO	SOIC-16	SSOP-20	QFN-24	SSOP-28	QFN-32	QFN-40	QFN-48	TQFP-48	QFN-56	WQFN-64	TQFP-64	TQFP-80	TQFP-100	-40 to +85°C	-40 to +105°C	-40 to +125°C		
PSoC™ 4100S Plus Series																																						
CY8C4126LDA-S453KA	24	64	8	–	2	●	–	●	806 Ksps	2	8	4	●	●	24	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–	
CY8C4146LDA-S243KA	48	64	8	–	–	–	–	–	1000 Ksps	2	8	4	●	●	24	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–	
CY8C4146LDA-S253KA	48	64	8	–	–	–	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–	
CY8C4146LDA-S263KA	48	64	8	–	–	●	–	–	1000 Ksps	2	8	4	●	●	24	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–	
CY8C4146LDA-S273KA	48	64	8	–	–	●	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–	
CY8C4146LDA-S453KA	48	64	8	–	2	●	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–	
CY8C4127LDA-S443KA	24	128	16	–	2	–	–	●	806 Ksps	2	8	4	●	●	24	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–	
CY8C4127LDA-S453KA	24	128	16	–	2	●	–	●	806 Ksps	2	8	4	●	●	24	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–	
CY8C4147LDA-S243KA	48	128	16	–	–	–	–	–	1000 Ksps	2	8	4	●	●	24	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–	
CY8C4147LDA-S253KA	48	128	16	–	–	–	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–	
CY8C4147LDA-S263KA	48	128	16	–	–	●	–	–	1000 Ksps	2	8	4	●	●	24	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–	
CY8C4147LDA-S273KA	48	128	16	–	–	●	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–	
CY8C4147LDA-S283KA	48	128	16	–	–	–	–	●	1000 Ksps	2	8	4	●	●	24	1	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–	
CY8C4147LDA-S293KA	48	128	16	–	–	●	–	●	1000 Ksps	2	8	4	●	●	24	1	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–	
CY8C4147LDA-S443KA	48	128	16	–	2	–	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–	
CY8C4147LDA-S453KA	48	128	16	–	2	●	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–	
CY8C4147LDA-S463KA	48	128	16	–	2	–	–	●	1000 Ksps	2	8	4	●	●	24	1	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–	
CY8C4147LDA-S473KA	48	128	16	–	2	●	–	●	1000 Ksps	2	8	4	●	●	24	1	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–	
CY8C4126LDS-S453KA	24	64	8	–	2	●	–	●	806 Ksps	2	8	4	●	●	24	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–	
CY8C4146LDS-S243KA	48	64	8	–	–	–	–	–	1000 Ksps	2	8	4	●	●	24	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–	
CY8C4146LDS-S253KA	48	64	8	–	–	–	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–	
CY8C4146LDS-S263KA	48	64	8	–	–	●	–	–	1000 Ksps	2	8	4	●	●	24	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–	
CY8C4146LDS-S273KA	48	64	8	–	–	●	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–	
CY8C4146LDS-S453KA	48	64	8	–	2	●	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–	
CY8C4127LDS-S443KA	24	128	16	–	2	–	–	●	806 Ksps	2	8	4	●	●	24	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–	
CY8C4127LDS-S453KA	24	128	16	–	2	●	–	●	806 Ksps	2	8	4	●	●	24	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–	
CY8C4147LDS-S243KA	48	128	16	–	–	–	–	–	1000 Ksps	2	8	4	●	●	24	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–	
CY8C4147LDS-S253KA	48	128	16	–	–	–	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–	

Automotive PSoC™ 4 S-Series

Product type/partnumber	Features																				Packages												Operating Temperature					
	Max. CPU Speed [MHz]	Flash [KB]	SRAM [KB]	UDB	Op Amp [CTBm]	CapSense	I ² S	Direct LCD drive	12-bit SAR ADC	LP comparators	TCPWM blocks	SCB blocks	WCO	ECO	Smart IOs	CAN	CAN-FD	CRYPTO	CXPI	GPIO	SOIC-16	SSOP-20	QFN-24	SSOP-28	QFN-32	QFN-40	QFN-48	TQFP-48	QFN-56	WQFN-64	TQFP-64	TQFP-80	TQFP-100	-40 to +85°C	-40 to +105°C	-40 to +125°C		
PSoC™ 4100S Plus Series																																						
CY8C4147LDS-S263KA	48	128	16	-	-	●	-	-	1000 Ksps	2	8	4	●	●	24	-	-	-	-	38	-	-	-	-	-	-	●	-	-	-	-	-	-	-	●	-		
CY8C4147LDS-S273KA	48	128	16	-	-	●	-	●	1000 Ksps	2	8	4	●	●	24	-	-	-	-	38	-	-	-	-	-	-	●	-	-	-	-	-	-	-	●	-		
CY8C4147LDS-S283KA	48	128	16	-	-	-	-	●	1000 Ksps	2	8	4	●	●	24	1	-	-	-	38	-	-	-	-	-	-	●	-	-	-	-	-	-	-	●	-		
CY8C4147LDS-S293KA	48	128	16	-	-	●	-	●	1000 Ksps	2	8	4	●	●	24	1	-	-	-	38	-	-	-	-	-	-	●	-	-	-	-	-	-	-	●	-		
CY8C4147LDS-S443KA	48	128	16	-	2	-	-	●	1000 Ksps	2	8	4	●	●	24	-	-	-	-	38	-	-	-	-	-	-	●	-	-	-	-	-	-	-	●	-		
CY8C4147LDS-S453KA	48	128	16	-	2	●	-	●	1000 Ksps	2	8	4	●	●	24	-	-	-	-	38	-	-	-	-	-	-	●	-	-	-	-	-	-	-	●	-		
CY8C4147LDS-S463KA	48	128	16	-	2	-	-	●	1000 Ksps	2	8	4	●	●	24	1	-	-	-	38	-	-	-	-	-	-	●	-	-	-	-	-	-	-	●	-		
CY8C4147LDS-S473KA	48	128	16	-	2	●	-	●	1000 Ksps	2	8	4	●	●	24	1	-	-	-	38	-	-	-	-	-	-	●	-	-	-	-	-	-	-	●	-		
CY8C4126LDE-S453KA	24	64	8	-	2	●	-	●	806 Ksps	2	8	4	●	●	24	-	-	-	-	38	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●		
CY8C4146LDE-S243KA	48	64	8	-	-	-	-	-	1000 Ksps	2	8	4	●	●	24	-	-	-	-	38	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●		
CY8C4146LDE-S253KA	48	64	8	-	-	-	-	●	1000 Ksps	2	8	4	●	●	24	-	-	-	-	38	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●		
CY8C4146LDE-S263KA	48	64	8	-	-	●	-	-	1000 Ksps	2	8	4	●	●	24	-	-	-	-	38	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●		
CY8C4146LDE-S273KA	48	64	8	-	-	●	-	●	1000 Ksps	2	8	4	●	●	24	-	-	-	-	38	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●		
CY8C4146LDE-S453KA	48	64	8	-	2	●	-	●	1000 Ksps	2	8	4	●	●	24	-	-	-	-	38	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●		
CY8C4127LDE-S443KA	24	128	16	-	2	-	-	●	806 Ksps	2	8	4	●	●	24	-	-	-	-	38	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●		
CY8C4127LDE-S453KA	24	128	16	-	2	●	-	●	806 Ksps	2	8	4	●	●	24	-	-	-	-	38	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●		
CY8C4147LDE-S243KA	48	128	16	-	-	-	-	-	1000 Ksps	2	8	4	●	●	24	-	-	-	-	38	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●		
CY8C4147LDE-S253KA	48	128	16	-	-	-	-	●	1000 Ksps	2	8	4	●	●	24	-	-	-	-	38	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●		
CY8C4147LDE-S263KA	48	128	16	-	-	●	-	-	1000 Ksps	2	8	4	●	●	24	-	-	-	-	38	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●		
CY8C4147LDE-S273KA	48	128	16	-	-	●	-	●	1000 Ksps	2	8	4	●	●	24	-	-	-	-	38	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●		
CY8C4147LDE-S283KA	48	128	16	-	-	-	-	●	1000 Ksps	2	8	4	●	●	24	1	-	-	-	38	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●		
CY8C4147LDE-S293KA	48	128	16	-	-	●	-	●	1000 Ksps	2	8	4	●	●	24	1	-	-	-	38	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●		
CY8C4147LDE-S443KA	48	128	16	-	2	-	-	●	1000 Ksps	2	8	4	●	●	24	-	-	-	-	38	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●		
CY8C4147LDE-S453KA	48	128	16	-	2	●	-	●	1000 Ksps	2	8	4	●	●	24	-	-	-	-	38	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●		
CY8C4147LDE-S463KA	48	128	16	-	2	-	-	●	1000 Ksps	2	8	4	●	●	24	1	-	-	-	38	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●		
CY8C4147LDE-S473KA	48	128	16	-	2	●	-	●	1000 Ksps	2	8	4	●	●	24	1	-	-	-	38	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●		
CY8C4126AZA-S455	24	64	8	-	2	●	-	●	806 Ksps	2	8	5	●	●	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	●	-	●	-	-			

Automotive PSoC™ 4 S-Series

Product type/partnumber	Features																				Packages												Operating Temperature					
	Max. CPU Speed [MHz]	Flash [KB]	SRAM [KB]	UDB	Op Amp [CTBm]	CapSense	I ² S	Direct LCD drive	12-bit SAR ADC	LP comparators	TCPWM blocks	SCB blocks	WCO	ECO	Smart IOs	CAN	CAN-FD	CRYPTO	CXPI	GPIO	SOIC-16	SSOP-20	QFN-24	SSOP-28	QFN-32	QFN-40	QFN-48	TQFP-48	QFN-56	WQFN-64	TQFP-64	TQFP-80	TQFP-100	-40 to +85°C	-40 to +105°C	-40 to +125°C		
PSoC™ 4100S Plus Series																																						
CY8C4146AZA-S245	48	64	8	-	-	-	-	-	1000 Ksps	2	8	5	●	●	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	●	-	-	●	-	-	
CY8C4146AZA-S255	48	64	8	-	-	-	-	●	1000 Ksps	2	8	5	●	●	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	●	-	-	●	-	-	
CY8C4146AZA-S265	48	64	8	-	-	●	-	-	1000 Ksps	2	8	5	●	●	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	●	-	-	●	-	-	
CY8C4146AZA-S275	48	64	8	-	-	●	-	●	1000 Ksps	2	8	5	●	●	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	●	-	-	●	-	-	
CY8C4146AZA-S455	48	64	8	-	2	●	-	●	1000 Ksps	2	8	5	●	●	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	●	-	-	●	-	-	
CY8C4127AZA-S445	24	128	16	-	2	-	-	●	806 Ksps	2	8	5	●	●	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	●	-	-	●	-	-	
CY8C4127AZA-S455	24	128	16	-	2	●	-	●	806 Ksps	2	8	5	●	●	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	●	-	-	●	-	-	
CY8C4147AZA-S245	48	128	16	-	-	-	-	-	1000 Ksps	2	8	5	●	●	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	●	-	-	●	-	-	
CY8C4147AZA-S255	48	128	16	-	-	-	-	●	1000 Ksps	2	8	5	●	●	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	●	-	-	●	-	-	
CY8C4147AZA-S265	48	128	16	-	-	●	-	-	1000 Ksps	2	8	5	●	●	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	●	-	-	●	-	-	
CY8C4147AZA-S275	48	128	16	-	-	●	-	●	1000 Ksps	2	8	5	●	●	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	●	-	-	●	-	-	
CY8C4147AZA-S285	48	128	16	-	-	-	-	●	1000 Ksps	2	8	5	●	●	24	1	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	●	-	-	●	-	-	
CY8C4147AZA-S295	48	128	16	-	-	●	-	●	1000 Ksps	2	8	5	●	●	24	1	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	●	-	-	●	-	-	
CY8C4147AZA-S445	48	128	16	-	2	-	-	●	1000 Ksps	2	8	5	●	●	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	●	-	-	●	-	-	
CY8C4147AZA-S455	48	128	16	-	2	●	-	●	1000 Ksps	2	8	5	●	●	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	●	-	-	●	-	-	
CY8C4147AZA-S465	48	128	16	-	2	-	-	●	1000 Ksps	2	8	5	●	●	24	1	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	●	-	-	●	-	-	
CY8C4147AZA-S475	48	128	16	-	2	●	-	●	1000 Ksps	2	8	5	●	●	24	1	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	●	-	-	●	-	-	
CY8C4126AZS-S455	24	64	8	-	2	●	-	●	806 Ksps	2	8	5	●	●	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	●	-	
CY8C4146AZS-S245	48	64	8	-	-	-	-	-	1000 Ksps	2	8	5	●	●	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	●	-	
CY8C4146AZS-S255	48	64	8	-	-	-	-	●	1000 Ksps	2	8	5	●	●	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	●	-	
CY8C4146AZS-S265	48	64	8	-	-	●	-	-	1000 Ksps	2	8	5	●	●	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	●	-	
CY8C4146AZS-S275	48	64	8	-	-	●	-	●	1000 Ksps	2	8	5	●	●	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	●	-	
CY8C4146AZS-S455	48	64	8	-	2	●	-	●	1000 Ksps	2	8	5	●	●	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	●	-	
CY8C4127AZS-S445	24	128	16	-	2	-	-	●	806 Ksps	2	8	5	●	●	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	●	-	
CY8C4127AZS-S455	24	128	16	-	2	●	-	●	806 Ksps	2	8	5	●	●	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	●	-	
CY8C4147AZS-S245	48	128	16	-	-	-	-	-	1000 Ksps	2	8	5	●	●	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	●	-	
CY8C4147AZS-S255	48	128	16	-	-	-	-	●	1000 Ksps	2	8	5	●	●	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	●	-	

Automotive PSoC™ 4 S-Series

Product type/partnumber	Features																				Packages												Operating Temperature					
	Max. CPU Speed [MHz]	Flash [KB]	SRAM [KB]	UDB	Op Amp [CTBm]	CapSense	I ² S	Direct LCD drive	12-bit SAR ADC	LP comparators	TCPWM blocks	SCB blocks	WCO	ECO	Smart IOs	CAN	CAN-FD	CRYPTO	CXPI	GPIO	SOIC-16	SSOP-20	QFN-24	SSOP-28	QFN-32	QFN-40	QFN-48	TQFP-48	QFN-56	WQFN-64	TQFP-64	TQFP-80	TQFP-100	-40 to +85°C	-40 to +105°C	-40 to +125°C		
PSoC™ 4100S Plus Series																																						
CY8C4147AZS-S265	48	128	16	-	-	●	-	-	1000 Ksps	2	8	5	●	●	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	●	-	
CY8C4147AZS-S275	48	128	16	-	-	●	-	●	1000 Ksps	2	8	5	●	●	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	●	-	
CY8C4147AZS-S285	48	128	16	-	-	-	-	●	1000 Ksps	2	8	5	●	●	24	1	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	●	-	
CY8C4147AZS-S295	48	128	16	-	-	●	-	●	1000 Ksps	2	8	5	●	●	24	1	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	●	-	
CY8C4147AZS-S445	48	128	16	-	2	-	-	●	1000 Ksps	2	8	5	●	●	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	●	-	
CY8C4147AZS-S455	48	128	16	-	2	●	-	●	1000 Ksps	2	8	5	●	●	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	●	-	
CY8C4147AZS-S465	48	128	16	-	2	-	-	●	1000 Ksps	2	8	5	●	●	24	1	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	●	-	
CY8C4147AZS-S475	48	128	16	-	2	●	-	●	1000 Ksps	2	8	5	●	●	24	1	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	●	-	
CY8C4126LQA-S453	24	64	8	-	2	●	-	●	806 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	●	-	-		
CY8C4146LQA-S243	48	64	8	-	-	-	-	-	1000 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	●	-	-		
CY8C4146LQA-S253	48	64	8	-	-	-	-	●	1000 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	●	-	-		
CY8C4146LQA-S263	48	64	8	-	-	●	-	-	1000 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	●	-	-		
CY8C4146LQA-S273	48	64	8	-	-	●	-	●	1000 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	●	-	-		
CY8C4146LQA-S453	48	64	8	-	2	●	-	●	1000 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	●	-	-		
CY8C4127LQA-S443	24	128	16	-	2	-	-	●	806 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	●	-	-		
CY8C4127LQA-S453	24	128	16	-	2	●	-	●	806 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	●	-	-		
CY8C4147LQA-S243	48	128	16	-	-	-	-	-	1000 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	●	-	-		
CY8C4147LQA-S253	48	128	16	-	-	-	-	●	1000 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	●	-	-		
CY8C4147LQA-S263	48	128	16	-	-	●	-	-	1000 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	●	-	-		
CY8C4147LQA-S273	48	128	16	-	-	●	-	●	1000 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	●	-	-		
CY8C4147LQA-S283	48	128	16	-	-	-	-	●	1000 Ksps	2	8	4	●	●	24	1	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	●	-	-		
CY8C4147LQA-S293	48	128	16	-	-	●	-	●	1000 Ksps	2	8	4	●	●	24	1	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	●	-	-		
CY8C4147LQA-S443	48	128	16	-	2	-	-	●	1000 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	●	-	-		
CY8C4147LQA-S453	48	128	16	-	2	●	-	●	1000 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	●	-	-		
CY8C4147LQA-S463	48	128	16	-	2	-	-	●	1000 Ksps	2	8	4	●	●	24	1	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	●	-	-		
CY8C4147LQA-S473	48	128	16	-	2	●	-	●	1000 Ksps	2	8	4	●	●	24	1	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	●	-	-		
CY8C4126LQS-S453	24	64	8	-	2	●	-	●	806 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●	-		

Automotive PSoC™ 4 S-Series

Product type/partnumber	Features																				Packages												Operating Temperature					
	Max. CPU Speed [MHz]	Flash [KB]	SRAM [KB]	UDB	Op Amp [CTBm]	CapSense	I ² S	Direct LCD drive	12-bit SAR ADC	LP comparators	TCPWM blocks	SCB blocks	WCO	ECO	Smart IOs	CAN	CAN-FD	CRYPTO	CXPI	GPIO	SOIC-16	SSOP-20	QFN-24	SSOP-28	QFN-32	QFN-40	QFN-48	TQFP-48	QFN-56	WQFN-64	TQFP-64	TQFP-80	TQFP-100	-40 to +85°C	-40 to +105°C	-40 to +125°C		
PSoC™ 4100S Plus Series																																						
CY8C4146LQS-S243	48	64	8	-	-	-	-	-	1000 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	●	-	
CY8C4146LQS-S253	48	64	8	-	-	-	-	●	1000 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	●	-	
CY8C4146LQS-S263	48	64	8	-	-	●	-	-	1000 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	●	-	
CY8C4146LQS-S273	48	64	8	-	-	●	-	●	1000 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	●	-	
CY8C4146LQS-S453	48	64	8	-	2	●	-	●	1000 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	●	-	
CY8C4127LQS-S443	24	128	16	-	2	-	-	●	806 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	●	-	
CY8C4127LQS-S453	24	128	16	-	2	●	-	●	806 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	●	-	
CY8C4147LQS-S243	48	128	16	-	-	-	-	-	1000 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	●	-	
CY8C4147LQS-S253	48	128	16	-	-	-	-	●	1000 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	●	-	
CY8C4147LQS-S263	48	128	16	-	-	●	-	-	1000 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	●	-	
CY8C4147LQS-S273	48	128	16	-	-	●	-	●	1000 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	●	-	
CY8C4147LQS-S283	48	128	16	-	-	-	-	●	1000 Ksps	2	8	4	●	●	24	1	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	●	-	
CY8C4147LQS-S293	48	128	16	-	-	●	-	●	1000 Ksps	2	8	4	●	●	24	1	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	●	-	
CY8C4147LQS-S443	48	128	16	-	2	-	-	●	1000 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	●	-	
CY8C4147LQS-S453	48	128	16	-	2	●	-	●	1000 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	●	-	
CY8C4147LQS-S463	48	128	16	-	2	-	-	●	1000 Ksps	2	8	4	●	●	24	1	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	●	-	
CY8C4147LQS-S473	48	128	16	-	2	●	-	●	1000 Ksps	2	8	4	●	●	24	1	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	●	-	
CY8C4126LQE-S453	24	64	8	-	2	●	-	●	806 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	●		
CY8C4146LQE-S243	48	64	8	-	-	-	-	-	1000 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	●		
CY8C4146LQE-S253	48	64	8	-	-	-	-	●	1000 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	●		
CY8C4146LQE-S263	48	64	8	-	-	●	-	-	1000 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	●		
CY8C4146LQE-S273	48	64	8	-	-	●	-	●	1000 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	●		
CY8C4146LQE-S453	48	64	8	-	2	●	-	●	1000 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	●		
CY8C4127LQE-S443	24	128	16	-	2	-	-	●	806 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	●		
CY8C4127LQE-S453	24	128	16	-	2	●	-	●	806 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	●		
CY8C4147LQE-S243	48	128	16	-	-	-	-	-	1000 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	●	
CY8C4147LQE-S253	48	128	16	-	-	-	-	●	1000 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	●	

Automotive PSoC™ 4 S-Series

Product type/partnumber	Features																				Packages														Operating Temperature			
	Max. CPU Speed [MHz]	Flash [KB]	SRAM [KB]	UDB	Op Amp [CTBm]	CapSense	I ² S	Direct LCD drive	12-bit SAR ADC	LP comparators	TCPWM blocks	SCB blocks	WCO	ECO	Smart I/Os	CAN	CAN-FD	CRYPTO	CXPI	GPIO	SOIC-16	SSOP-20	QFN-24	SSOP-28	QFN-32	QFN-40	QFN-48	TQFP-48	QFN-56	WQFN-64	TQFP-64	TQFP-80	TQFP-100	-40 to +85°C	-40 to +105°C	-40 to +125°C		
PSoC™ 4100S Plus Series																																						
CY8C4147LQE-S263	48	128	16	–	–	●	–	–	1000 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	
CY8C4147LQE-S273	48	128	16	–	–	●	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	
CY8C4147LQE-S283	48	128	16	–	–	–	–	●	1000 Ksps	2	8	4	●	●	24	1	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	
CY8C4147LQE-S293	48	128	16	–	–	●	–	●	1000 Ksps	2	8	4	●	●	24	1	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	
CY8C4147LQE-S443	48	128	16	–	2	–	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	
CY8C4147LQE-S453	48	128	16	–	2	●	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	
CY8C4147LQE-S463	48	128	16	–	2	–	–	●	1000 Ksps	2	8	4	●	●	24	1	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	
CY8C4147LQE-S473	48	128	16	–	2	●	–	●	1000 Ksps	2	8	4	●	●	24	1	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	
CY8C4126AZE-S455	24	64	8	–	2	●	–	●	806 Ksps	2	8	5	●	●	24	–	–	–	–	54	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	●	
CY8C4146AZE-S245	48	64	8	–	–	–	–	–	1000 Ksps	2	8	5	●	●	–	–	–	–	–	54	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	●	
CY8C4146AZE-S255	48	64	8	–	–	–	–	●	1000 Ksps	2	8	5	●	●	–	–	–	–	–	54	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	●	
CY8C4146AZE-S265	48	64	8	–	–	●	–	–	1000 Ksps	2	8	5	●	●	–	–	–	–	–	54	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	●	
CY8C4146AZE-S275	48	64	8	–	–	●	–	●	1000 Ksps	2	8	5	●	●	–	–	–	–	–	54	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	●		
CY8C4146AZE-S455	48	64	8	–	2	●	–	●	1000 Ksps	2	8	5	●	●	24	–	–	–	–	54	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	●		
CY8C4127AZE-S445	24	128	16	–	2	–	–	●	806 Ksps	2	8	5	●	●	24	–	–	–	–	54	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	●		
CY8C4127AZE-S455	24	128	16	–	2	●	–	●	806 Ksps	2	8	5	●	●	24	–	–	–	–	54	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	●		
CY8C4147AZE-S245	48	128	16	–	–	–	–	–	1000 Ksps	2	8	5	●	●	–	–	–	–	–	54	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	●		
CY8C4147AZE-S255	48	128	16	–	–	–	–	●	1000 Ksps	2	8	5	●	●	–	–	–	–	–	54	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	●		
CY8C4147AZE-S265	48	128	16	–	–	●	–	–	1000 Ksps	2	8	5	●	●	–	–	–	–	–	54	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	●		
CY8C4147AZE-S275	48	128	16	–	–	●	–	●	1000 Ksps	2	8	5	●	●	–	–	–	–	–	54	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	●		
CY8C4147AZE-S285	48	128	16	–	–	–	–	●	1000 Ksps	2	8	5	●	●	24	1	–	–	–	54	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	●		
CY8C4147AZE-S295	48	128	16	–	–	●	–	●	1000 Ksps	2	8	5	●	●	24	1	–	–	–	54	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	●		
CY8C4147AZE-S445	48	128	16	–	2	–	–	●	1000 Ksps	2	8	5	●	●	24	–	–	–	–	54	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	●		
CY8C4147AZE-S455	48	128	16	–	2	●	–	●	1000 Ksps	2	8	5	●	●	24	–	–	–	–	54	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	●		
CY8C4147AZE-S465	48	128	16	–	2	–	–	●	1000 Ksps	2	8	5	●	●	24	1	–	–	–	54	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	●		
CY8C4147AZE-S475	48	128	16	–	2	●	–	●	1000 Ksps	2	8	5	●	●	24	1	–	–	–	54	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	●		
CY8C4126LQA-S453KA	24	64	8	–	2	●	–	●	806 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–		
CY8C4146LQA-S243KA	48	64	8	–	–	–	–	–	1000 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–		

Automotive PSoC™ 4 S-Series

Product type/partnumber	Features																				Packages														Operating Temperature			
	Max. CPU Speed [MHz]	Flash [KB]	SRAM [KB]	UDB	Op Amp [CTBm]	CapSense	I ² S	Direct LCD drive	12-bit SAR ADC	LP comparators	TCPWM blocks	SCB blocks	WCO	ECO	Smart IOs	CAN	CAN-FD	CRYPTO	CXPI	GPIO	SOIC-16	SSOP-20	QFN-24	SSOP-28	QFN-32	QFN-40	QFN-48	TQFP-48	QFN-56	WQFN-64	TQFP-64	TQFP-80	TQFP-100	-40 to +85°C	-40 to +105°C	-40 to +125°C		
PSoC™ 4100S Plus Series																																						
CY8C4146LQA-S253KA	48	64	8	-	-	-	-	●	1000 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	●	-	-		
CY8C4146LQA-S263KA	48	64	8	-	-	●	-	-	1000 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●	-	-	
CY8C4146LQA-S273KA	48	64	8	-	-	●	-	●	1000 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●	-	-	
CY8C4146LQA-S453KA	48	64	8	-	2	●	-	●	1000 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●	-	-	
CY8C4127LQA-S443KA	24	128	16	-	2	-	-	●	806 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●	-	-	
CY8C4127LQA-S453KA	24	128	16	-	2	●	-	●	806 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●	-	-	
CY8C4147LQA-S243KA	48	128	16	-	-	-	-	-	1000 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●	-	-	
CY8C4147LQA-S253KA	48	128	16	-	-	-	-	●	1000 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●	-	-	
CY8C4147LQA-S263KA	48	128	16	-	-	●	-	-	1000 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●	-	-	
CY8C4147LQA-S273KA	48	128	16	-	-	●	-	●	1000 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●	-	-	
CY8C4147LQA-S283KA	48	128	16	-	-	-	-	●	1000 Ksps	2	8	4	●	●	24	1	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●	-	-	
CY8C4147LQA-S293KA	48	128	16	-	-	●	-	●	1000 Ksps	2	8	4	●	●	24	1	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●	-	-	
CY8C4147LQA-S443KA	48	128	16	-	2	-	-	●	1000 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●	-	-	
CY8C4147LQA-S453KA	48	128	16	-	2	●	-	●	1000 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●	-	-	
CY8C4147LQA-S463KA	48	128	16	-	2	-	-	●	1000 Ksps	2	8	4	●	●	24	1	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●	-	-	
CY8C4147LQA-S473KA	48	128	16	-	2	●	-	●	1000 Ksps	2	8	4	●	●	24	1	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●	-	-	
CY8C4126LQS-S453KA	24	64	8	-	2	●	-	●	806 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●	-		
CY8C4146LQS-S243KA	48	64	8	-	-	-	-	-	1000 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●	-		
CY8C4146LQS-S253KA	48	64	8	-	-	-	-	●	1000 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●	-		
CY8C4146LQS-S263KA	48	64	8	-	-	●	-	-	1000 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●	-		
CY8C4146LQS-S273KA	48	64	8	-	-	●	-	●	1000 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●	-		
CY8C4146LQS-S453KA	48	64	8	-	2	●	-	●	1000 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●	-		
CY8C4127LQS-S443KA	24	128	16	-	2	-	-	●	806 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●	-		
CY8C4127LQS-S453KA	24	128	16	-	2	●	-	●	806 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●	-		
CY8C4147LQS-S243KA	48	128	16	-	-	-	-	-	1000 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●	-		
CY8C4147LQS-S253KA	48	128	16	-	-	-	-	●	1000 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●	-		
CY8C4147LQS-S263KA	48	128	16	-	-	●	-	-	-	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●	-		
CY8C4147LQS-S273KA	48	128	16	-	-	●	-	●	1000 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●	-		

Automotive PSoC™ 4 S-Series

Product type/partnumber	Features																				Packages														Operating Temperature			
	Max. CPU Speed [MHz]	Flash [KB]	SRAM [KB]	UDB	Op Amp [CTBm]	CapSense	I ² S	Direct LCD drive	12-bit SAR ADC	LP comparators	TCPWM blocks	SCB blocks	WCO	ECO	Smart I/Os	CAN	CAN-FD	CRYPTO	CXPI	GPIO	SOIC-16	SSOP-20	QFN-24	SSOP-28	QFN-32	QFN-40	QFN-48	TQFP-48	QFN-56	WQFN-64	TQFP-64	TQFP-80	TQFP-100	-40 to +85°C	-40 to +105°C	-40 to +125°C		
PSoC™ 4100S Plus Series																																						
CY8C4147LQS-S283KA	48	128	16	-	-	-	-	●	1000 Ksps	2	8	4	●	●	24	1	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	●	-	
CY8C4147LQS-S293KA	48	128	16	-	-	●	-	●	1000 Ksps	2	8	4	●	●	24	1	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	●	-
CY8C4147LQS-S443KA	48	128	16	-	2	-	-	●	1000 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	●	-
CY8C4147LQS-S453KA	48	128	16	-	2	●	-	●	1000 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	●	-
CY8C4147LQS-S463KA	48	128	16	-	2	-	-	●	1000 Ksps	2	8	4	●	●	24	1	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	●	-
CY8C4147LQS-S473KA	48	128	16	-	2	●	-	●	1000 Ksps	2	8	4	●	●	24	1	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	●	-
CY8C4126LQE-S453KA	24	64	8	-	2	●	-	●	806 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	●	
CY8C4146LQE-S243KA	48	64	8	-	-	-	-	-	1000 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	●	
CY8C4146LQE-S253KA	48	64	8	-	-	-	-	●	1000 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	●	
CY8C4146LQE-S263KA	48	64	8	-	-	●	-	-	1000 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	●	
CY8C4146LQE-S273KA	48	64	8	-	-	●	-	●	1000 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	●	
CY8C4146LQE-S453KA	48	64	8	-	2	●	-	●	1000 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	●	
CY8C4127LQE-S443KA	24	128	16	-	2	-	-	●	806 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	●	
CY8C4127LQE-S453KA	24	128	16	-	2	●	-	●	806 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	●	
CY8C4147LQE-S243KA	48	128	16	-	-	-	-	-	1000 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	●	
CY8C4147LQE-S253KA	48	128	16	-	-	-	-	●	1000 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	●	
CY8C4147LQE-S263KA	48	128	16	-	-	●	-	-	1000 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	●	
CY8C4147LQE-S273KA	48	128	16	-	-	●	-	●	1000 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	●	
CY8C4147LQE-S283KA	48	128	16	-	-	-	-	●	1000 Ksps	2	8	4	●	●	24	1	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	●	
CY8C4147LQE-S293KA	48	128	16	-	-	●	-	●	1000 Ksps	2	8	4	●	●	24	1	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	●	
CY8C4147LQE-S443KA	48	128	16	-	2	-	-	●	1000 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	●	
CY8C4147LQE-S453KA	48	128	16	-	2	●	-	●	1000 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	●	
CY8C4147LQE-S463KA	48	128	16	-	2	-	-	●	1000 Ksps	2	8	4	●	●	24	1	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	●	
CY8C4147LQE-S473KA	48	128	16	-	2	●	-	●	1000 Ksps	2	8	4	●	●	24	1	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	●	

Automotive PSoC™ 4 S-Series

Product type/partnumber	Features																				Packages														Operating Temperature			
	Max. CPU Speed [MHz]	Flash [KB]	SRAM [KB]	UDB	Op Amp [CTBm]	CapSense	I ² S	Direct LCD drive	12-bit SAR ADC	LP comparators	TCPWM blocks	SCB blocks	WCO	ECO	Smart IOs	CAN	CAN-FD	CRYPTO	CXPI	GPIO	SOIC-16	SSOP-20	QFN-24	SSOP-28	QFN-32	QFN-40	QFN-48	TQFP-48	QFN-56	WQFN-64	TQFP-64	TQFP-80	TQFP-100	-40 to +85°C	-40 to +105°C	-40 to +125°C		
PSoC™ 4700S Plus Series																																						
CY8C4746LQS-S263	48	64	8	-	-	●	-	-	1000 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	●	-	
CY8C4747LQS-S453	48	128	16	-	2	●	-	●	1000 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	●	-	

Automotive PSoC™ 4 M-Series

Product type/partnumber	Features																				Packages														Operating Temperature			
	Max. CPU Speed [MHz]	Flash [KB]	SRAM [KB]	UDB	Op Amp [CTBm]	CapSense	I ² S	Direct LCD drive	12-bit SAR ADC	LP comparators	TCPWM blocks	SCB blocks	WCO	ECO	Smart IOs	CAN	CAN-FD	CRYPTO	CXPI	GPIO	SOIC-16	SSOP-20	QFN-24	SSOP-28	QFN-32	QFN-40	QFN-48	TQFP-48	QFN-56	WQFN-64	TQFP-64	TQFP-80	TQFP-100	-40 to +85°C	-40 to +105°C	-40 to +125°C		
PSoC™ 4100M-Series																																						
CY8C4125AZA-M443	24	32	4	-	2	●	-	●	806 Ksps	2	8	4	●	-	-	-	-	-	-	38	-	-	-	-	-	-	-	●	-	-	-	-	-	-	●	-	-	
CY8C4125AZA-M445	24	32	4	-	2	●	-	●	806 Ksps	2	8	4	●	-	-	-	-	-	-	51	-	-	-	-	-	-	-	-	-	-	-	●	-	-	●	-	-	
CY8C4126AZA-M443	24	64	8	-	2	●	-	●	806 Ksps	2	8	4	●	-	-	-	-	-	-	38	-	-	-	-	-	-	-	●	-	-	-	-	-	-	●	-	-	
CY8C4126AZA-M445	24	64	8	-	2	●	-	●	806 Ksps	2	8	4	●	-	-	-	-	-	-	51	-	-	-	-	-	-	-	-	-	-	-	●	-	-	●	-	-	
CY8C4127AZA-M485	24	128	16	-	4	●	-	●	806 Ksps	2	8	4	●	-	-	-	-	-	-	51	-	-	-	-	-	-	-	-	-	-	-	●	-	-	●	-	-	
CY8C4125AZS-M443	24	32	4	-	2	●	-	●	806 Ksps	2	8	4	●	-	-	-	-	-	-	38	-	-	-	-	-	-	-	●	-	-	-	-	-	-	-	●	-	
CY8C4125AZS-M445	24	32	4	-	2	●	-	●	806 Ksps	2	8	4	●	-	-	-	-	-	-	51	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	●	-	
CY8C4126AZS-M443	24	64	8	-	2	●	-	●	806 Ksps	2	8	4	●	-	-	-	-	-	-	38	-	-	-	-	-	-	-	●	-	-	-	-	-	-	-	●	-	
CY8C4126AZS-M445	24	64	8	-	2	●	-	●	806 Ksps	2	8	4	●	-	-	-	-	-	-	51	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	●	-	
CY8C4127AZS-M485	24	128	16	-	4	●	-	●	806 Ksps	2	8	4	●	-	-	-	-	-	-	51	-	-	-	-	-	-	-	-	-	-	-	●	-	-	●	-	-	

Automotive PSoC™ 4 M-Series

Product type/partnumber	Features																				Packages														Operating Temperature			
	Max. CPU Speed [MHz]	Flash [KB]	SRAM [KB]	UDB	Op Amp [CTBm]	CapSense	I ² S	Direct LCD drive	12-bit SAR ADC	LP comparators	TCPWM blocks	SCB blocks	WCO	ECO	Smart IOs	CAN	CAN-FD	CRYPTO	CXPI	GPIO	SOIC-16	SSOP-20	QFN-24	SSOP-28	QFN-32	QFN-40	QFN-48	TQFP-48	QFN-56	WQFN-64	TQFP-64	TQFP-80	TQFP-100	VFBGA-124	-40 to +85°C	-40 to +105°C	-40 to +125°C	
PSoC™ 4200M-Series																																						
CY8C4245AZA-M443	48	32	4	4	2	●	-	●	1000 Ksps	2	8	4	●	-	-	-	-	-	-	38	-	-	-	-	-	-	-	●	-	-	-	-	-	-	-	●	-	-
CY8C4245AZA-M445	48	32	4	4	2	●	-	●	1000 Ksps	2	8	4	●	-	-	-	-	-	-	51	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	●	-	-
CY8C4246AZA-M443	48	64	8	4	2	●	-	●	1000 Ksps	2	8	4	●	-	-	-	-	-	-	38	-	-	-	-	-	-	-	●	-	-	-	-	-	-	-	●	-	-
CY8C4246AZA-M445	48	64	8	4	2	●	-	●	1000 Ksps	2	8	4	●	-	-	-	-	-	-	51	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	●	-	-
CY8C4247LWA-M464	48	128	16	4	4	●	-	●	1000 Ksps	2	8	4	●	-	-	-	-	-	-	46	-	-	-	-	-	-	-	-	●	-	-	-	-	-	-	●	-	-
CY8C4247AZA-M475	48	128	16	4	4	-	-	●	1000 Ksps	2	8	4	●	-	-	-	-	-	-	51	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	●	-	-
CY8C4247AZA-M483	48	128	16	4	4	●	-	●	1000 Ksps	2	8	4	●	-	-	2	-	-	-	38	-	-	-	-	-	-	-	●	-	-	-	-	-	-	-	●	-	-
CY8C4247AZA-M485	48	128	16	4	4	●	-	●	1000 Ksps	2	8	4	●	-	-	2	-	-	-	51	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	●	-	-
CY8C4247LWA-M484	48	128	16	4	4	●	-	●	1000 Ksps	2	8	4	●	-	-	2	-	-	-	46	-	-	-	-	-	-	-	-	●	-	-	-	-	-	-	●	-	-
CY8C4245AZS-M443	48	32	4	4	2	●	-	●	1000 Ksps	2	8	4	●	-	-	-	-	-	-	38	-	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●	-
CY8C4245AZS-M445	48	32	4	4	2	●	-	●	1000 Ksps	2	8	4	●	-	-	-	-	-	-	51	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-	●	-
CY8C4246AZS-M443	48	64	8	4	2	●	-	●	1000 Ksps	2	8	4	●	-	-	-	-	-	-	38	-	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●	-
CY8C4246AZS-M445	48	64	8	4	2	●	-	●	1000 Ksps	2	8	4	●	-	-	-	-	-	-	51	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-	●	-
CY8C4247LWS-M464	48	128	16	4	4	●	-	●	1000 Ksps	2	8	4	●	-	-	-	-	-	-	46	-	-	-	-	-	-	-	-	●	-	-	-	-	-	-	-	●	-
CY8C4247AZS-M475	48	128	16	4	4	-	-	●	1000 Ksps	2	8	4	●	-	-	-	-	-	-	51	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-	●	-
CY8C4247AZS-M483	48	128	16	4	4	●	-	●	1000 Ksps	2	8	4	●	-	-	2	-	-	-	38	-	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●	-
CY8C4247AZS-M485	48	128	16	4	4	●	-	●	1000 Ksps	2	8	4	●	-	-	2	-	-	-	51	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-	●	-
CY8C4247LWS-M484	48	128	16	4	4	●	-	●	1000 Ksps	2	8	4	●	-	-	2	-	-	-	46	-	-	-	-	-	-	-	-	●	-	-	-	-	-	-	-	●	-

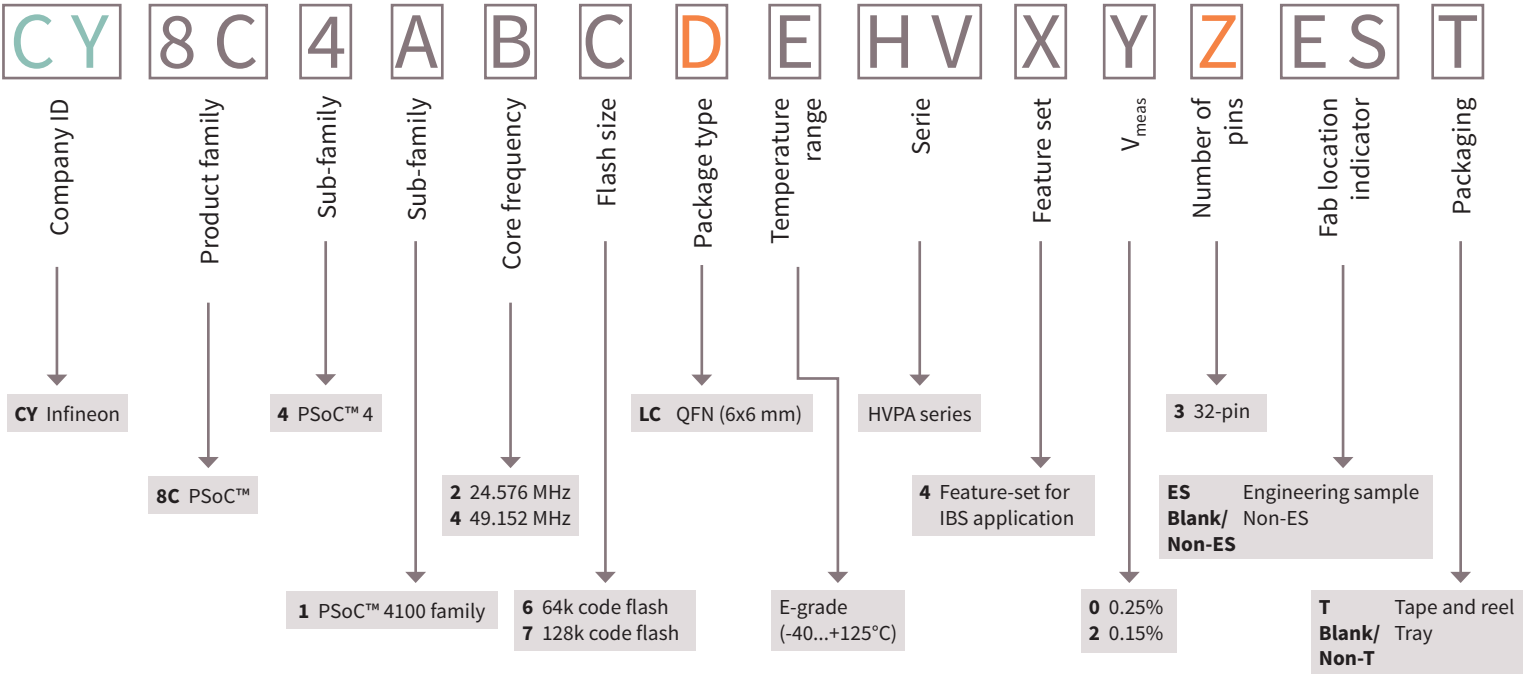
Automotive PSoC™ 4 L-Series

Product type/partnumber	Features																				Packages														Operating Temperature					
	Max. CPU Speed [MHz]	Flash [KB]	SRAM [KB]	UDB	Op Amp [CTBm]	CapSense	I ² S	Direct LCD drive	12-bit SAR ADC	LP comparators	TCPWM blocks	SCB blocks	WCO	ECO	Smart I/Os	CAN	CAN-FD	CRYPTO	CXPI	GPIO	SOIC-16	SSOP-20	QFN-24	SSOP-28	QFN-32	QFN-40	QFN-48	TQFP-48	QFN-56	WQFN-64	TQFP-64	TQFP-80	TQFP-100	VFBGA-124	-40 to +85°C	-40 to +105°C	-40 to +125°C			
PSoC™ 4200L-Series																																								
CY8C4248BZA-L489	48	256	32	8	4	●	-	●	1000 Ksps	2	8	4	-	-	-	-	-	-	-	98	-	-	-	-	-	-	-	-	-	-	-	-	-	●	●	-	-			
CY8C4248BZS-L489	48	256	32	8	4	●	-	●	1000 Ksps	2	8	4	-	-	-	-	-	-	-	98	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	●	-			

PSoC™ 4 High Voltage



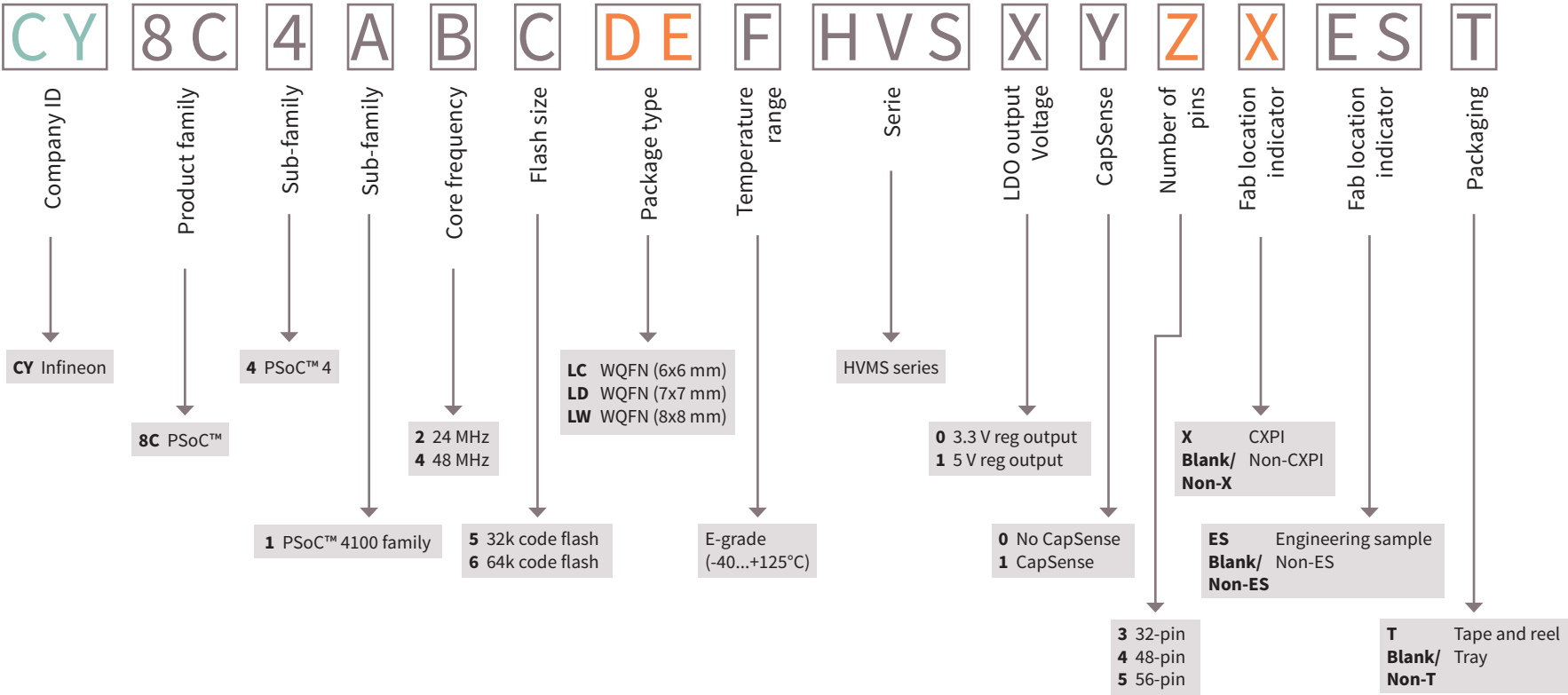
PSoC™ 4 HV PA (High Voltage Precision Analog)



Product type/partnumber	Features												Packages QFN-32 (6x6 mm)	Operating Temperature -40 to +125°C
	Max. CPU Speed [MHz]	Code Flash [KB] with ECC	Data Flash [KB] with ECC	SRAM [KB] with ECC	16-20-bit precision ΔΣ ADC	High voltage measurement los (with HV divider)	Voltage measurement accuracy	TCPWM blocks	SCB blocks	LIN	High Voltage Subsystem (LDO, LIN PHY)	GPIO		
PSoC™ 4 HV PA 144K														
CY8C4126LCE-HV403	24	64	8	4	2	2	0.25%	4	1	1	●	8	●	●
CY8C4126LCE-HV423	24	64	8	4	2	2	0.15% ¹⁾	4	1	1	●	8	●	●
CY8C4127LCE-HV403	24	128	8	8	2	2	0.25%	4	1	1	●	8	●	●
CY8C4127LCE-HV423	24	128	8	8	2	2	0.15% ¹⁾	4	1	1	●	8	●	●
CY8C4147LCE-HV403	48	128	8	8	2	2	0.25%	4	1	1	●	8	●	●
CY8C4147LCE-HV423	48	128	8	8	2	2	0.15% ¹⁾	4	1	1	●	8	●	●

1) 11 V < V_{BAT} < 14V, -40°C < T_A < 85°C

PSoC™ 4 HV MS (High voltage Mixed Signal)



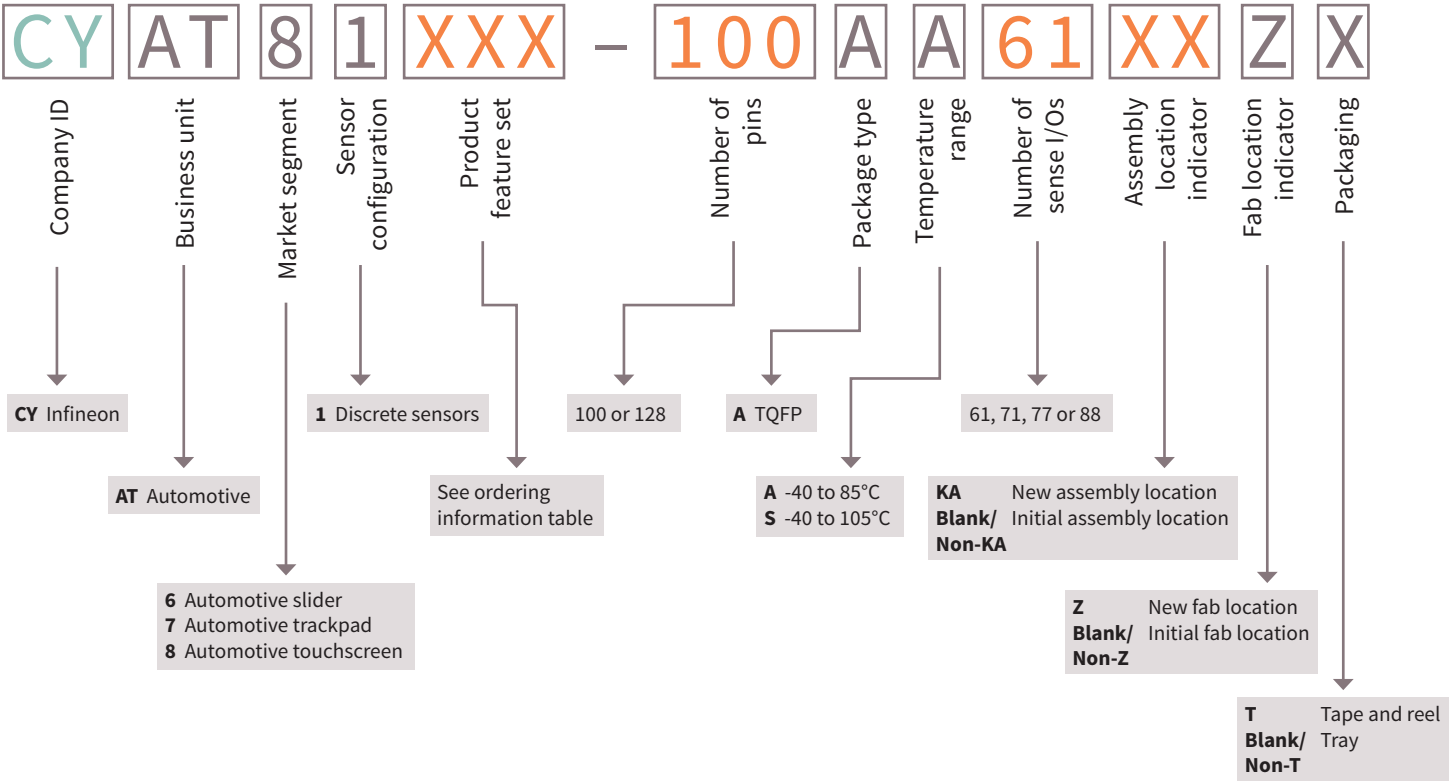
PSoC™ 4 HV MS (High voltage Mixed Signal)

Product type/partnumber	Features																	Packages			Operating Temperature -40 to +125°C
	Max. CPU Speed [MHz]	Flash [KB] with ECC	SRAM [KB] with ECC	MSC (CapSense)	12-bit SAR ADC	LP comparators	TCPWM blocks	LIN (mxlin controller)	CXPI (cxpi controller)	SCB blocks	HV Div (VBAT meas)	HV LDO	LDO output V for internal and external supply [V]	LIN PHY	CXPI PHY	GPIO	SMART IO	QFN-32 (6x6 mm)	QFN-48 (7x7mm)	QFN-56 (8x8mm)	
PSoC™ 4 HV MS 64K																					
CY8C4125LCE-HVS003	24	32	4	–	●	2	5	1	–	2	●	●	3.3	●	–	18	10	●	–	–	●
CY8C4125LCE-HVS013	24	32	4	●	●	2	5	1	–	2	●	●	3.3	●	–	18	10	●	–	–	●
CY8C4126LCE-HVS003	24	64	8	–	●	2	5	1	–	2	●	●	3.3	●	–	18	10	●	–	–	●
CY8C4126LCE-HVS013	24	64	8	●	●	2	5	1	–	2	●	●	3.3	●	–	18	10	●	–	–	●
CY8C4146LCE-HVS003	48	64	8	–	●	2	5	1	–	2	●	●	3.3	●	–	18	10	●	–	–	●
CY8C4146LCE-HVS013	48	64	8	●	●	2	5	1	–	2	●	●	3.3	●	–	18	10	●	–	–	●
CY8C4146LCE-HVS003X	48	64	8	–	●	2	5	1	1	2	●	●	3.3	●	●	18	10	●	–	–	●
CY8C4146LCE-HVS013X	48	64	8	●	●	2	5	1	1	2	●	●	3.3	●	●	18	10	●	–	–	●
CY8C4125LCE-HVS103	24	32	4	–	●	2	5	1	–	2	●	●	5	●	–	18	10	●	–	–	●
CY8C4125LCE-HVS113	24	32	4	●	●	2	5	1	–	2	●	●	5	●	–	18	10	●	–	–	●
CY8C4126LCE-HVS103	24	64	8	–	●	2	5	1	–	2	●	●	5	●	–	18	10	●	–	–	●
CY8C4126LCE-HVS113	24	64	8	●	●	2	5	1	–	2	●	●	5	●	–	18	10	●	–	–	●
CY8C4146LCE-HVS103	48	64	8	–	●	2	5	1	–	2	●	●	5	●	–	18	10	●	–	–	●
CY8C4146LCE-HVS113	48	64	8	●	●	2	5	1	–	2	●	●	5	●	–	18	10	●	–	–	●
CY8C4146LCE-HVS103X	48	64	8	–	●	2	5	1	1	2	●	●	5	●	●	18	10	●	–	–	●
CY8C4146LCE-HVS113X	48	64	8	●	●	2	5	1	1	2	●	●	5	●	●	18	10	●	–	–	●
CY8C4125LDE-HVS004	24	32	4	–	●	2	5	1	–	2	●	●	3.3	●	–	33	16	–	●	–	●
CY8C4125LDE-HVS014	24	32	4	●	●	2	5	1	–	2	●	●	3.3	●	–	33	16	–	●	–	●
CY8C4126LDE-HVS004	24	64	8	–	●	2	5	1	–	2	●	●	3.3	●	–	33	16	–	●	–	●
CY8C4126LDE-HVS014	24	64	8	●	●	2	5	1	–	2	●	●	3.3	●	–	33	16	–	●	–	●
CY8C4146LDE-HVS004	48	64	8	–	●	2	5	1	–	2	●	●	3.3	●	–	33	16	–	●	–	●
CY8C4146LDE-HVS014	48	64	8	●	●	2	5	1	–	2	●	●	3.3	●	–	33	16	–	●	–	●
CY8C4146LDE-HVS004X	48	64	8	–	●	2	5	1	1	2	●	●	3.3	●	●	33	16	–	●	–	●
CY8C4146LDE-HVS014X	48	64	8	●	●	2	5	1	1	2	●	●	3.3	●	●	33	16	–	●	–	●
CY8C4125LDE-HVS104	24	32	4	–	●	2	5	1	–	2	●	●	5	●	–	33	16	–	●	–	●
CY8C4125LDE-HVS114	24	32	4	●	●	2	5	1	–	2	●	●	5	●	–	33	16	–	●	–	●
CY8C4126LDE-HVS104	24	64	8	–	●	2	5	1	–	2	●	●	5	●	–	33	16	–	●	–	●
CY8C4126LDE-HVS114	24	64	8	●	●	2	5	1	–	2	●	●	5	●	–	33	16	–	●	–	●

PSoC™ Automotive Multitouch

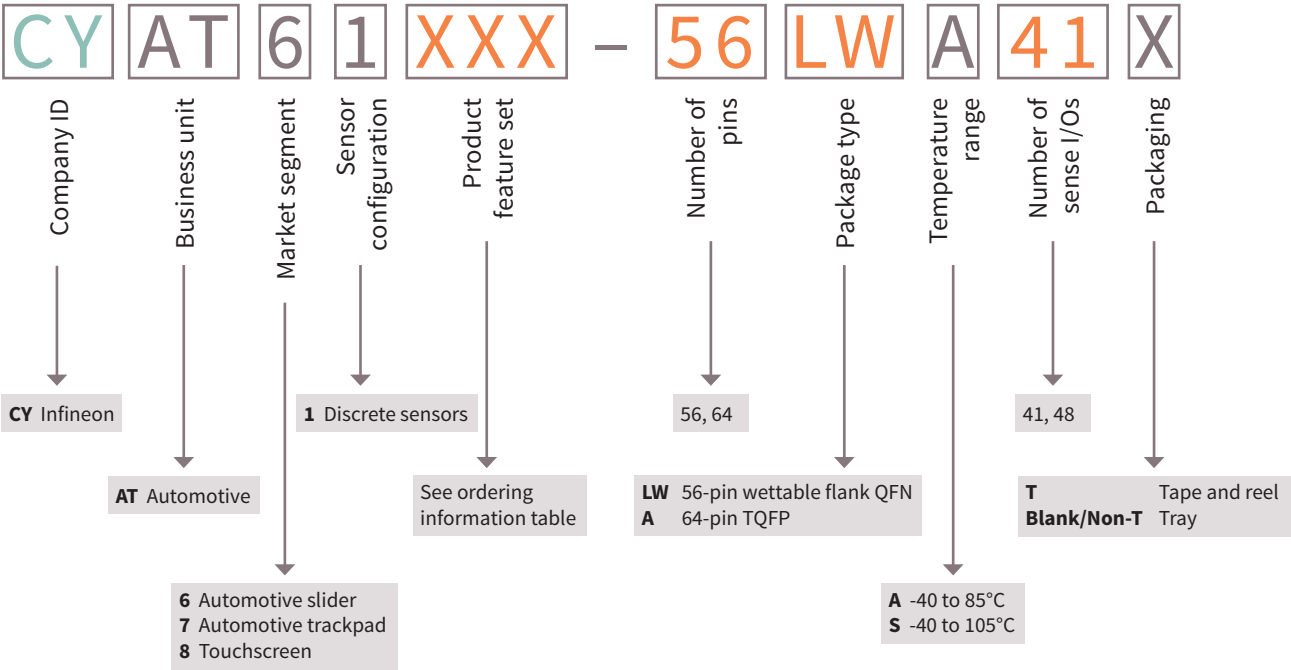


Gen6XL – First high performance single chip Touch Controller



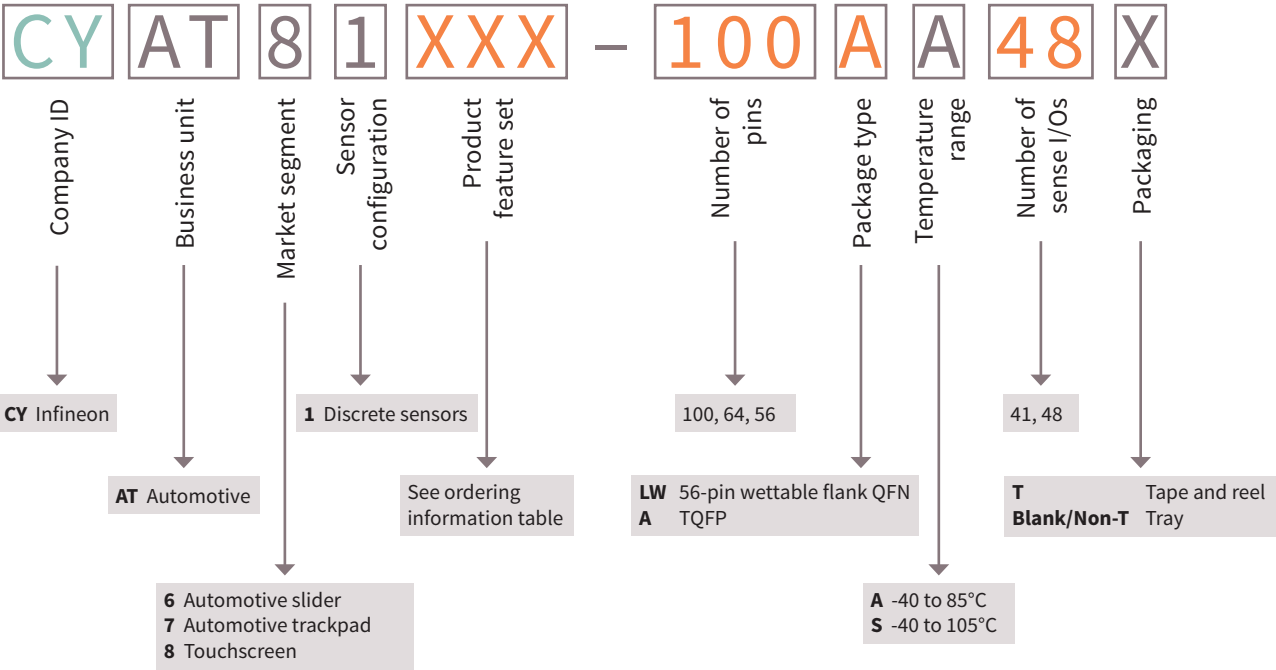
Product type/ partnumber	Number of sense pins	Number of fingers	Wake-up button support	CapSense buttons	Water rejection	Thin glove support	Display Armor	Gesture	Thick overlay/ thick glove support	5 V Tx	Package
CYAT81682-100AA61Z	61	10	-	●	●	●	●	-	-	-	TQFP-100
CYAT81682-100AS61Z	61	10	-	●	●	●	●	-	-	-	TQFP-100
CYAT81682-100AA71Z	71	10	-	●	●	●	●	-	-	-	TQFP-100
CYAT81682-100AS71Z	71	10	-	●	●	●	●	-	-	-	TQFP-100
CYAT81682-100AA77Z	77	10	-	●	●	●	●	-	-	-	TQFP-100
CYAT81682-100AS77Z	77	10	-	●	●	●	●	-	-	-	TQFP-100
CYAT81682-128AA88Z	88	10	-	●	●	●	●	-	-	-	TQFP-128
CYAT81682-128AS88Z	88	10	-	●	●	●	●	-	-	-	TQFP-128
CYAT81685-100AA61Z	61	10	-	●	●	●	●	●	-	-	TQFP-100
CYAT81685-100AS61Z	61	10	-	●	●	●	●	●	-	-	TQFP-100
CYAT81685-100AA71Z	71	10	-	●	●	●	●	●	-	-	TQFP-100
CYAT81685-100AS71Z	71	10	-	●	●	●	●	●	-	-	TQFP-100
CYAT81685-100AA77Z	77	10	-	●	●	●	●	●	-	-	TQFP-100
CYAT81685-100AS77Z	77	10	-	●	●	●	●	●	-	-	TQFP-100
CYAT81685-128AA88Z	88	10	-	●	●	●	●	●	-	-	TQFP-128
CYAT81685-128AS88Z	88	10	-	●	●	●	●	●	-	-	TQFP-128
CYAT81688-100AA61Z	61	10	-	●	●	●	●	●	●	●	TQFP-100
CYAT81688-100AS61Z	61	10	-	●	●	●	●	●	●	●	TQFP-100
CYAT81688-100AA71Z	71	10	-	●	●	●	●	●	●	●	TQFP-100
CYAT81688-100AS71Z	71	10	-	●	●	●	●	●	●	●	TQFP-100
CYAT81688-100AA77Z	77	10	-	●	●	●	●	●	●	●	TQFP-100
CYAT81688-100AS77Z	77	10	-	●	●	●	●	●	●	●	TQFP-100
CYAT81688-128AA88Z	88	10	-	●	●	●	●	●	●	●	TQFP-128
CYAT81688-128AS88Z	88	10	-	●	●	●	●	●	●	●	TQFP-128
CYAT81689-100AA61Z	61	10	●	●	●	●	●	●	●	●	TQFP-100
CYAT81689-100AS61Z	61	10	●	●	●	●	●	●	●	●	TQFP-100
CYAT81689-100AA71Z	71	10	●	●	●	●	●	●	●	●	TQFP-100
CYAT81689-100AS71Z	71	10	●	●	●	●	●	●	●	●	TQFP-100
CYAT81689-100AA77Z	77	10	●	●	●	●	●	●	●	●	TQFP-100
CYAT81689-100AS77Z	77	10	●	●	●	●	●	●	●	●	TQFP-100
CYAT81689-128AA88Z	88	10	●	●	●	●	●	●	●	●	TQFP-128
CYAT81689-128AS88Z	88	10	●	●	●	●	●	●	●	●	TQFP-128

Gen6L – Slider slider solution



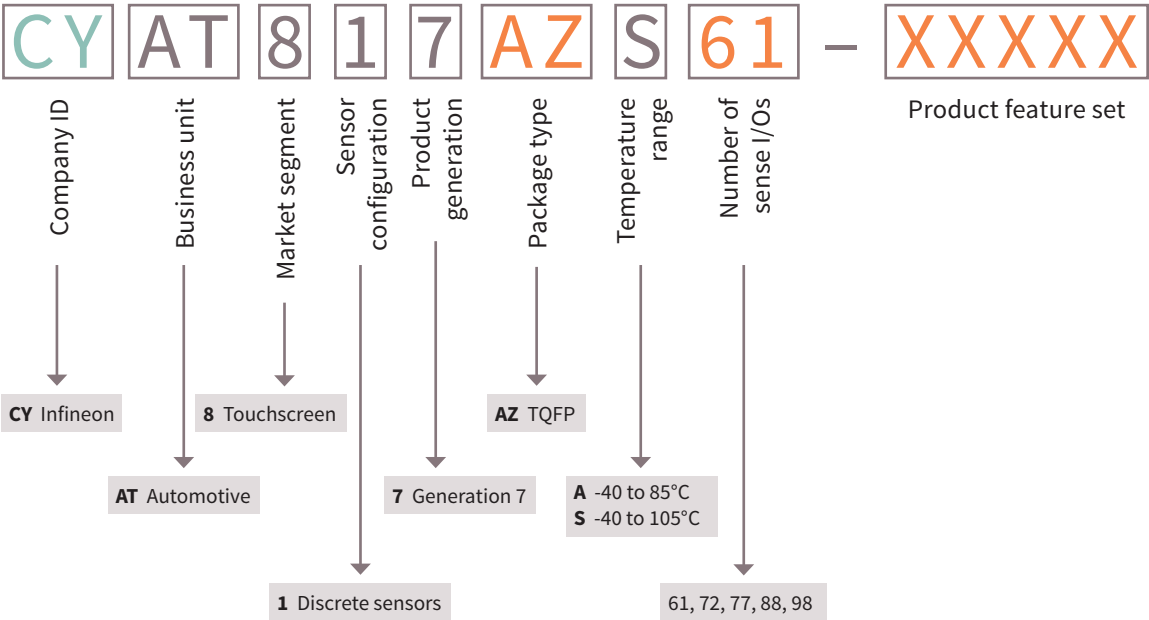
Product type/ partnumber	Number of sense pins	Number of fingers	Slider	Wake up button support	CapSense buttons	Water rejection	Thin glove support	Gestures	Thick overlay/ Thick glove support	Package
CYAT61652-56LWA41	41	10	●	-	●	●	●	-	-	QFN-56
CYAT61652-56LWS41	41	10	●	-	●	●	●	-	-	QFN-56
CYAT61658-56LWA41	41	10	●	-	●	●	●	-	●	QFN-56
CYAT61658-56LWS41	41	10	●	-	●	●	●	-	●	QFN-56
CYAT61659-56LWA41	41	10	●	●	●	●	●	-	●	QFN-56
CYAT61659-56LWS41	41	10	●	●	●	●	●	-	●	QFN-56
CYAT61652-64AA48	48	10	●	-	●	●	●	-	-	TQFP-64
CYAT61652-64AS48	48	10	●	-	●	●	●	-	-	TQFP-64
CYAT61658-64AA48	48	10	●	-	●	●	●	-	●	TQFP-64
CYAT61658-64AS48	48	10	●	-	●	●	●	-	●	TQFP-64
CYAT61659-64AA48	48	10	●	●	●	●	●	-	●	TQFP-64
CYAT61659-64AS48	48	10	●	●	●	●	●	-	●	TQFP-64

Gen6L – Low cost Touch controller solution



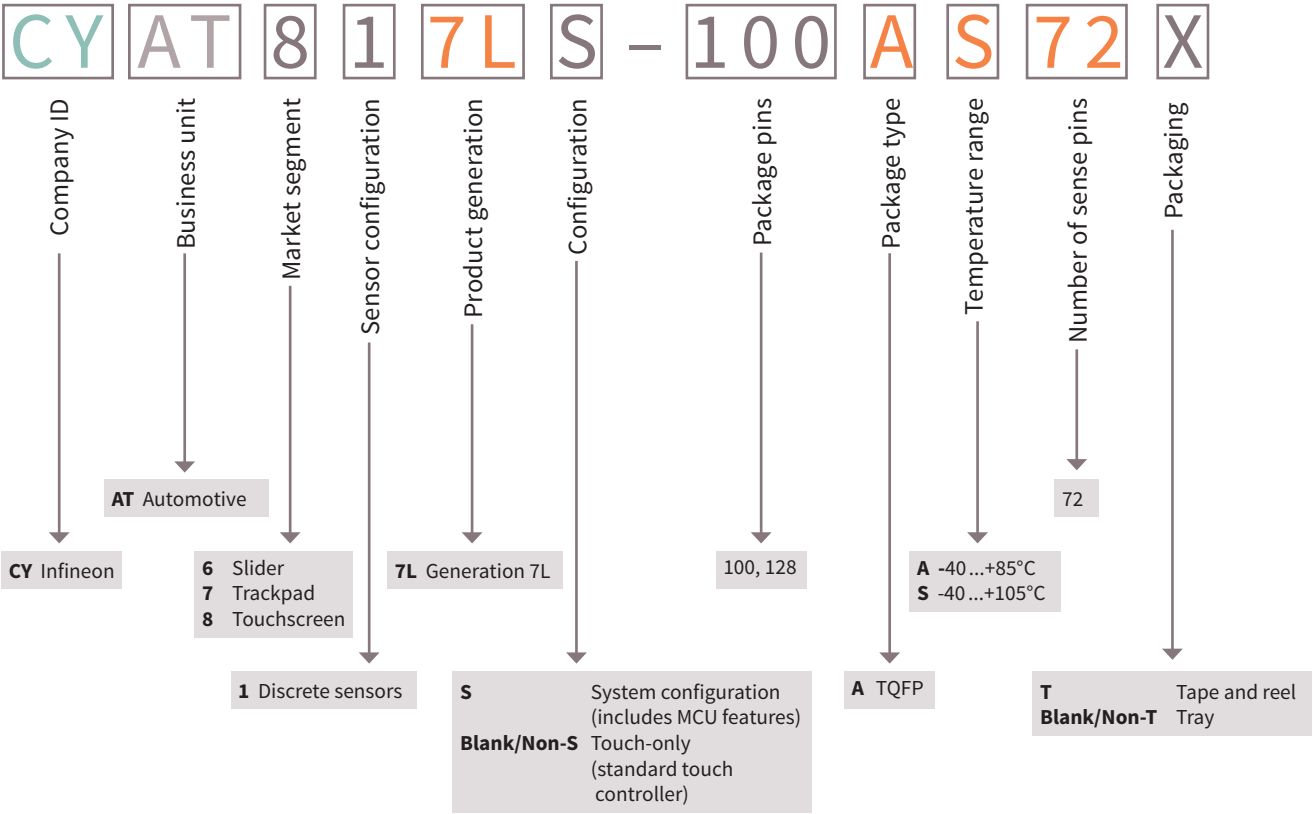
Product type/ partnumber	Number of sense pins	Number of fingers	Wake up button support/ wake-on-screen support	CapSense buttons	Water rejection	Thin glove support	Gestures	Thick overlay/ Thick glove support	Package
CYAT81650-100AA48	48	10	–	–	–	–	–	–	TQFP-100
CYAT81650-100AS48	48	10	–	–	–	–	–	–	TQFP-100
CYAT81652-100AA48	48	10	–	●	●	●	–	–	TQFP-100
CYAT81652-100AS48	48	10	–	●	●	●	–	–	TQFP-100
CYAT81655-100AA48	48	10	–	●	●	●	●	–	TQFP-100
CYAT81655-100AS48	48	10	–	●	●	●	●	–	TQFP-100
CYAT81658-100AA48	48	10	–	●	●	●	●	●	TQFP-100
CYAT81658-100AS48	48	10	–	●	●	●	●	●	TQFP-100
CYAT81659-100AA48	48	10	●	●	●	●	●	●	TQFP-100
CYAT81659-100AS48	48	10	●	●	●	●	●	●	TQFP-100
CYAT81650-64AA48	48	10	–	–	–	–	–	–	TQFP-64
CYAT81650-64AS48	48	10	–	–	–	–	–	–	TQFP-64
CYAT81652-64AA48	48	10	–	●	●	●	–	–	TQFP-64
CYAT81652-64AS48	48	10	–	●	●	●	–	–	TQFP-64
CYAT81655-64AA48	48	10	–	●	●	●	●	–	TQFP-64
CYAT81655-64AS48	48	10	–	●	●	●	●	–	TQFP-64
CYAT81658-64AA48	48	10	–	●	●	●	●	●	TQFP-64
CYAT81658-64AS48	48	10	–	●	●	●	●	●	TQFP-64
CYAT81659-64AA48	48	10	●	●	●	●	●	●	TQFP-64
CYAT81659-64AS48	48	10	●	●	●	●	●	●	TQFP-64
CYAT71658-56LWS41	41	10	●	●	●	●	●	●	QFN-56
CYAT71658-56LWA41	41	10	●	●	●	●	●	●	QFN-56

Gen7XL – Touch Controller with advanced features



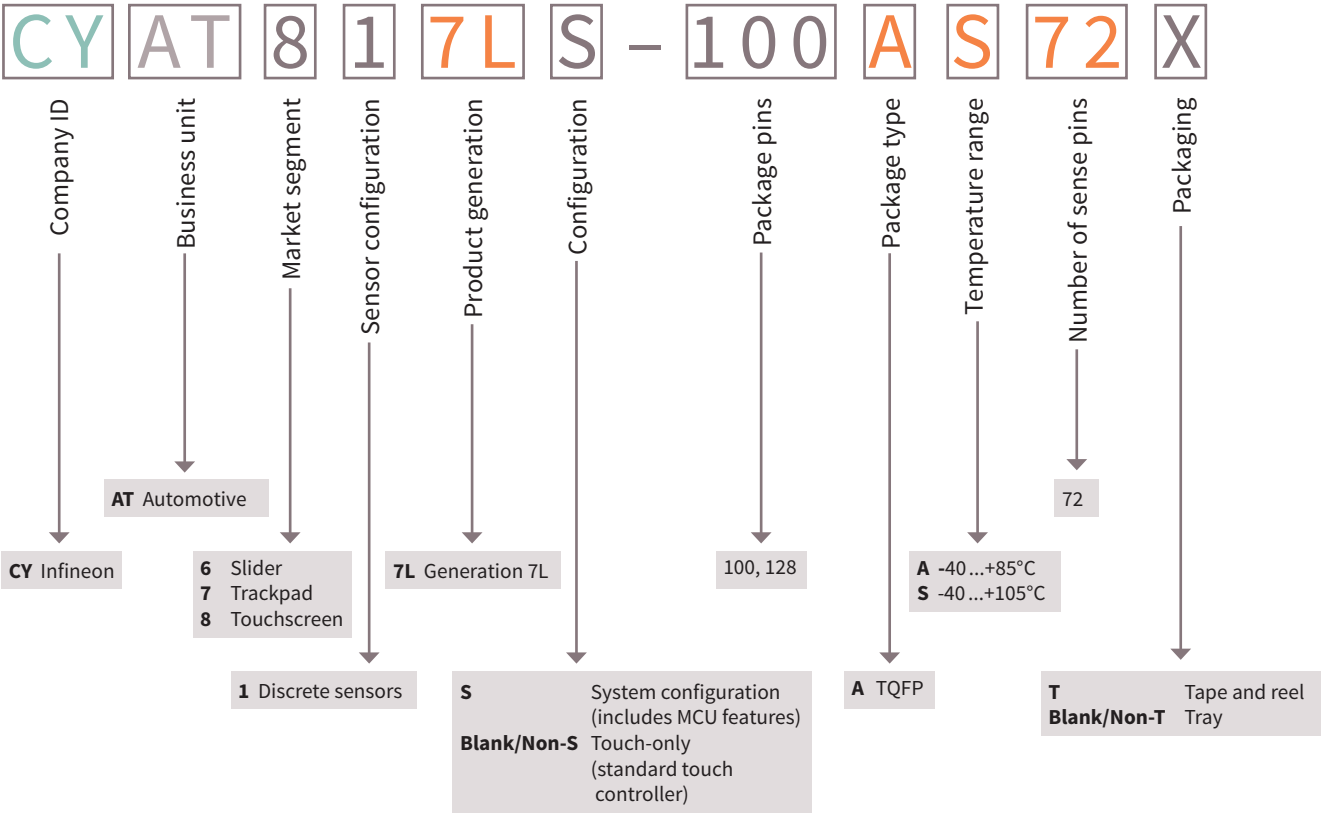
Product type/ partnumber	Number of sense pins	Number of fingers	Hover	Force touch	CapSense buttons	Low-power wake-up button/ wake-on-touch screen	Slider	Haptic	Acoustic	Secondary SCB (Touch data)	CAN	Proximity	Crypto	Gesture touch- screen	Gesture slider	H2O	Package
CYAT817AZS61-3A202	61	10	●	●	–	–	–	●	–	–	–	–	–	–	–	●	TQFP-100
CYAT817AZS61-3A002	61	10	●	●	–	–	–	–	–	–	–	–	–	–	–	●	TQFP-100
CYAT817AZS61-22002	61	10	–	–	–	–	–	–	–	–	–	–	–	–	–	●	TQFP-100
CYAT817AZS61-3A00A	61	10	●	●	–	–	–	–	–	–	–	–	–	●	–	●	TQFP-100
CYAT817AZS72-3BFBA	72	10	●	●	●	●	●	●	●	●	–	●	●	●	–	●	TQFP-100
CYAT817AZS72-3B202	72	10	●	●	●	–	–	●	–	–	–	–	–	–	–	●	TQFP-100
CYAT817AZS72-3B002	72	10	●	●	●	–	–	–	–	–	–	–	–	–	–	●	TQFP-100
CYAT817AZS72-33002	72	10	●	–	●	–	–	–	–	–	–	–	–	–	–	●	TQFP-100
CYAT817AZS72-32002	72	10	●	–	–	–	–	–	–	–	–	–	–	–	–	●	TQFP-100
CYAT817AZS72-22002	72	10	–	–	–	–	–	–	–	–	–	–	–	–	–	●	TQFP-100
CYAT817AZA72-3BFBA	72	10	●	●	●	●	●	●	●	●	–	●	●	●	–	●	TQFP-100
CYAT817AZS77-5BFBA	77	10	●	●	●	●	●	●	●	●	–	●	●	●	–	●	TQFP-128
CYAT817AZS77-5A202	77	10	●	●	–	–	–	●	–	–	–	–	–	–	–	●	TQFP-128
CYAT817AZS77-5A002	77	10	●	●	–	–	–	–	–	–	–	–	–	–	–	●	TQFP-128
CYAT817AZS77-53C02	77	10	●	–	●	●	●	–	–	–	–	–	–	–	–	●	TQFP-128
CYAT817AZS77-520DA	77	10	●	–	–	–	–	–	–	●	●	–	●	●	–	●	TQFP-128
CYAT817AZA77-5BFBA	77	10	●	●	●	●	●	●	●	●	–	●	●	●	–	●	TQFP-128
CYAT817AZS77-42002	77	10	–	–	–	–	–	–	–	–	–	–	–	–	–	●	TQFP-128
CYAT817AZS88-5BFBA	88	10	●	●	●	●	●	●	●	●	–	●	●	●	–	●	TQFP-128
CYAT817AZS88-52002	88	10	●	–	–	–	–	–	–	–	–	–	–	–	–	●	TQFP-128
CYAT817AZS88-42002	88	10	–	–	–	–	–	–	–	–	–	–	–	–	–	●	TQFP-128
CYAT817AZA88-5BFBA	88	10	●	●	●	●	●	●	●	●	–	●	●	●	–	●	TQFP-128
CYAT817AZA88-5B202	88	10	●	●	●	–	–	●	–	–	–	–	–	–	–	●	TQFP-128
CYAT817AZA88-5B002	88	10	●	●	●	–	–	–	–	–	–	–	–	–	–	●	TQFP-128
CYAT817AZA88-53002	88	10	●	–	●	–	–	–	–	–	–	–	–	–	–	●	TQFP-128
CYAT817AZA88-42002	88	10	–	–	–	–	–	–	–	–	–	–	–	–	–	●	TQFP-128
CYAT817AZS98-5BFFE	103	10	●	●	●	●	●	●	●	●	●	●	●	●	●	●	TQFP-128
CYAT817AZS98-5BFBA	103	10	●	●	●	●	●	●	●	●	–	●	●	●	–	●	TQFP-128
CYAT817AZS98-523DA	103	10	●	–	–	–	–	●	●	●	●	–	●	●	–	●	TQFP-128
CYAT817AZS98-42002	103	10	–	–	–	–	–	–	–	–	–	–	–	–	–	●	TQFP-128
CYAT817AZA98-5BFBA	103	10	●	●	●	●	●	●	●	●	–	●	●	●	–	●	TQFP-128
CYAT817AZA98-5B202	103	10	●	●	●	–	–	●	–	–	–	–	–	–	–	●	TQFP-128
CYAT817AZA98-5B002	103	10	●	●	●	–	–	–	–	–	–	–	–	–	–	●	TQFP-128
CYAT817AZA98-53002	103	10	●	–	●	–	–	–	–	–	–	–	–	–	–	●	TQFP-128
CYAT817AZA98-42002	103	10	–	–	–	–	–	–	–	–	–	–	–	–	–	●	TQFP-128

Gen7L – Touch + MCU features



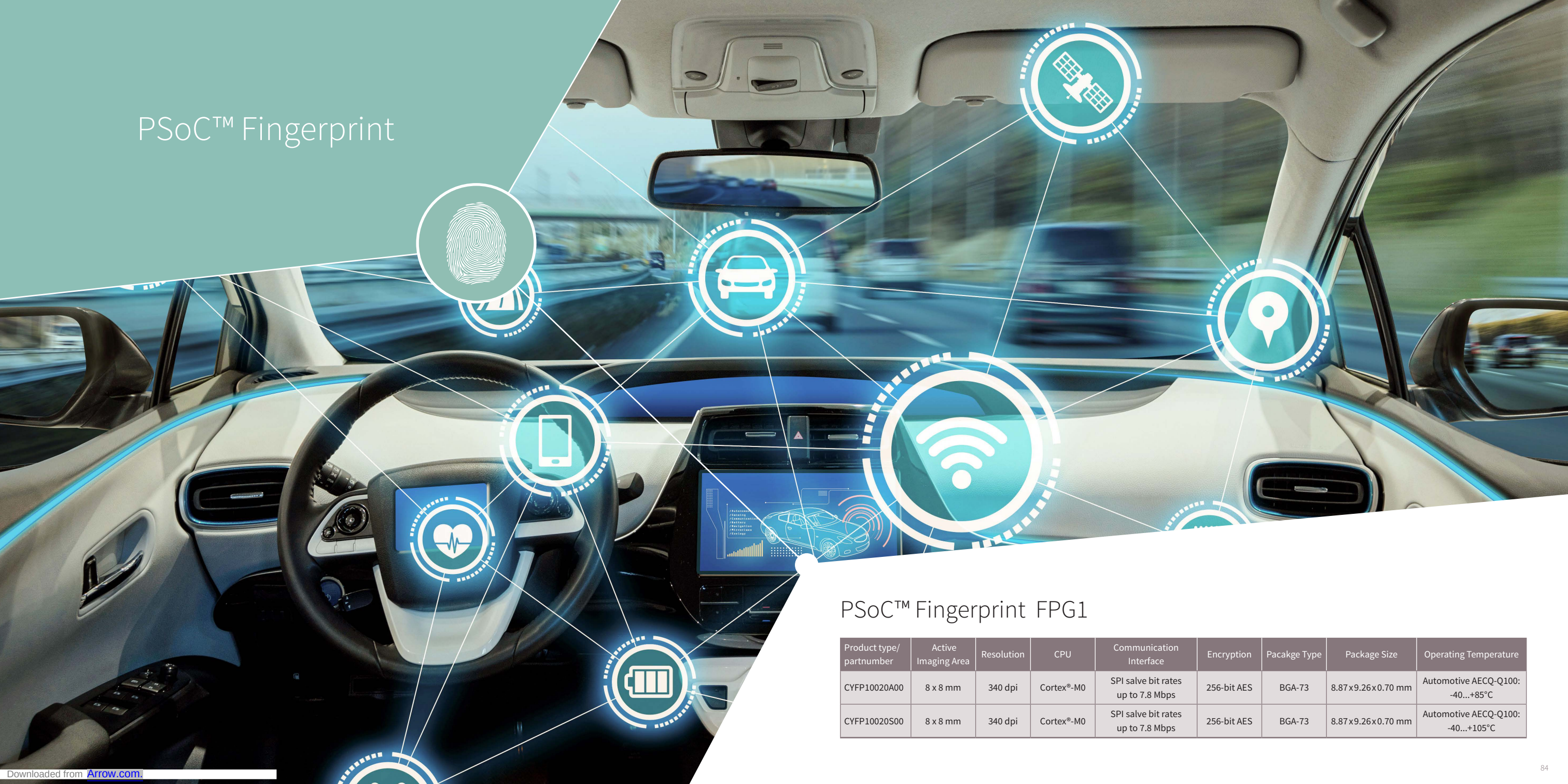
Product type/ partnumber	Number of sense pins	Number of fingers	Touch only	Touch + MCU functions	No. of GPIOs	Temperature [°C]	Package
CYAT817L-100AA72	72	10	●	–	13	–40 to +85	TQFP-100
CYAT817L-100AS72	72	10	●	–	13	–40 to +105	TQFP-100
CYAT817LS-100AA72	72	10	–	●	13	–40 to +85	TQFP-100
CYAT817LS-100AS72	72	10	–	●	13	–40 to +105	TQFP-100
CYAT817L-128AA72	72	10	●	–	29	–40 to +85	TQFP-128
CYAT817L-128AS72	72	10	●	–	29	–40 to +105	TQFP-128
CYAT817LS-128AA72	72	10	–	●	29	–40 to +85	TQFP-128
CYAT817LS-128AS72	72	10	–	●	29	–40 to +105	TQFP-128

Gen7XL – Multi-chip



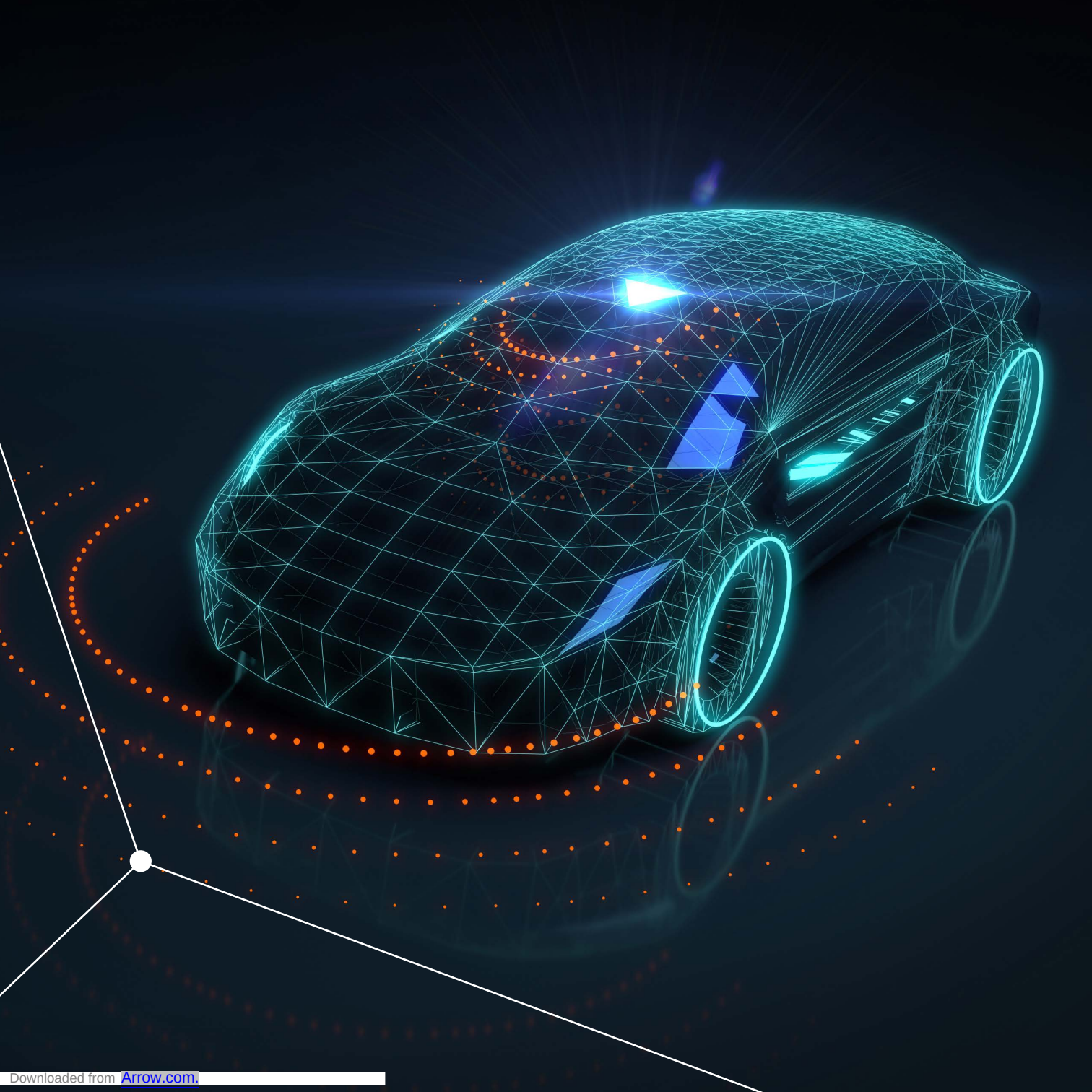
Product type/ partnumber	Number of sense pins	Multi-touch	Glove	H2O	Package
CYAT837AZA98-42002	98	•	•	•	TQFP-128
CYAT837AZS98-42002	98	•	•	•	TQFP-128
CYAT847AZA98-42002	98	•	•	•	TQFP-128
CYAT847AZS98-42002	98	•	•	•	TQFP-128
CYAT837AZA88-42002	88	•	•	•	TQFP-128
CYAT837AZS88-42002	88	•	•	•	TQFP-128
CYAT847AZA88-42002	88	•	•	•	TQFP-128
CYAT847AZS88-42002	88	•	•	•	TQFP-128
CYAT837AZA77-42002	77	•	•	•	TQFP-128
CYAT837AZS77-42002	77	•	•	•	TQFP-128
CYAT847AZA77-42002	77	•	•	•	TQFP-128
CYAT847AZS77-42002	77	•	•	•	TQFP-128
CYAT847AZA72-22002	72	•	•	•	TQFP-100
CYAT847AZS72-22002	72	–	–	•	TQFP-100
CYAT847AZA61-22002	61	•	•	•	TQFP-100
CYAT847AZS61-22002	61	•	•	•	TQFP-100

PSoC™ Fingerprint



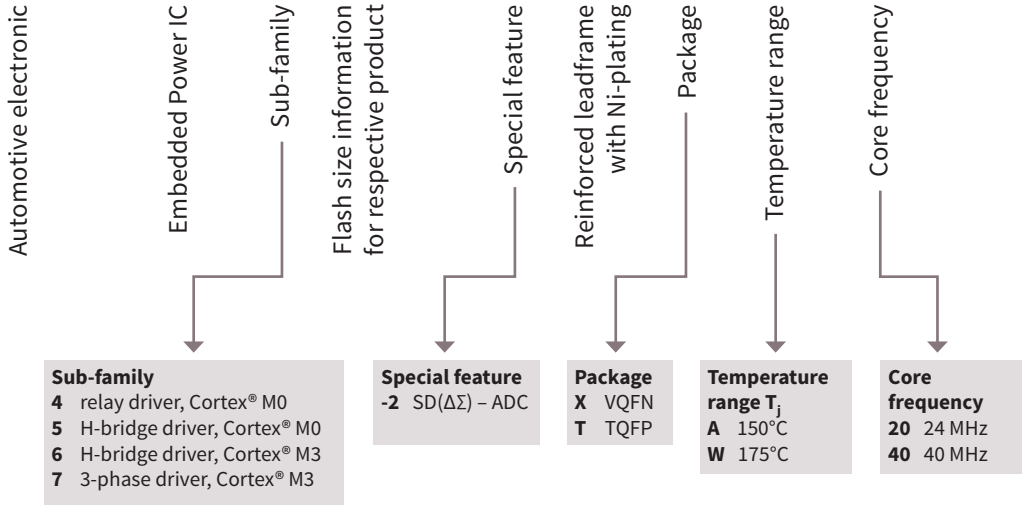
PSoC™ Fingerprint FPG1

Product type/ partnumber	Active Imaging Area	Resolution	CPU	Communication Interface	Encryption	Pacakge Type	Package Size	Operating Temperature
CYFP10020A00	8 x 8 mm	340 dpi	Cortex®-M0	SPI salve bit rates up to 7.8 Mbps	256-bit AES	BGA-73	8.87x9.26x0.70 mm	Automotive AECQ-Q100: -40...+85°C
CYFP10020S00	8 x 8 mm	340 dpi	Cortex®-M0	SPI salve bit rates up to 7.8 Mbps	256-bit AES	BGA-73	8.87x9.26x0.70 mm	Automotive AECQ-Q100: -40...+105°C



32-bit Embedded Power ICs based on Arm® Cortex® M

TLE9879 – 2QXA40



Selection table – Embedded Power ICs for Motor Control

Criteria	TLE984x	TLE9845QX	TLE9850/1QX(W)	TLE985x	TLE986x	TLE987x
Controller	Arm® Cortex®-M0				Arm® Cortex®-M3	
Core frequency	25/40 MHz	40 MHz			24/40 MHz	
Flash size	36–64 KB	48 KB	64 KB	48–96 KB	36–256 KB	
Driver stage	Relay	Half-bridge		H-bridge		B6-bridge
		PN FET	NN FET	N FET		N FET
High-voltage monitor inputs	4 – 5	5	4		1	
Junction temperature levels	150°C	150°C	175°C	150°C/175°C	150°C/175°C	
Package	VQFN-48-31		VQFN-48-29	VQFN-48-29 VQFN-48-31	TQFP-48-10 VQFN-48-29 VQFN-48-31	
Applications	Window lift Sunroof	Engine cooling fan Auxiliary water pump HVAC blower Fuel pump		Window lift Sunroof Wiper Power lift gate	Engine cooling fan Oil/water/fuel pump HVAC blower Power tools	

32-bit Embedded Power ICs based on Arm® Cortex® M

Product type/ part number	Markets			Package	GPIOs	Core		System					Debug		Supply voltage [V]	Operating temperature range T _A [°C]	Flash [kByte]	ECC	RAM [kByte]	Cache	EEPROM emulation in flash [kByte]	Fast LIN BSL bootloader	Peripherals clock [MHz]	Driver circuits					Analog				Timer				SPI	Dual SPI	Quad SPI	UART/SCI	IIC/I ² C	IIS/I ³ S	LIN	
	Automotive	Industrial	Consumer			Processor type	Core frequency [MHz]	ERU	DMA	MPU	Watchdog	Real-time clock	SWD, SPD	JTAG, Trace										MOSFET half bridge driver with double stage charge pump			High side switches	Low side switches	No. of 10-bit ADC channels	No. of 8-bit ADC channels	Operational amplifier	ΔΣ ADC	CCU6	GPT12	Timer 2/21	Timer 3								
																								3 phase	2 phase	1 phase																		
Relay Driver IC																																												
TLE9842QX	●	–	–	VQFN-48	10	Cortex® M0	25	–	–	●	●	●	●	–	5.5 to 28	-40 to 150	36 kByte	●	2 kByte	–	4 kByte	●	selectable	–	–	–	●	● ●	12 ch	7 ch	–	–	3 ch	●	●	–	●	–	–	●	–	–	●	
TLE9842-2QX	●	–	–	VQFN-48	10	Cortex® M0	40	–	–	●	●	●	●	–	5.5 to 28	-40 to 150	40 kByte	●	2 kByte	–	4 kByte	●	selectable	–	–	–	● ●	● ●	13 ch	7 ch	–	–	3 ch	●	●	–	●	–	–	●	–	–	●	
TLE9843QX	●	–	–	VQFN-48	10	Cortex® M0	25	–	–	●	●	●	●	–	5.5 to 28	-40 to 150	48 kByte	●	4 kByte	–	4 kByte	●	selectable	–	–	–	●	● ●	12 ch	7 ch	–	–	3 ch	●	●	–	●	–	–	●	–	–	●	
TLE9843-2QX	●	–	–	VQFN-48	10	Cortex® M0	40	–	–	●	●	●	●	–	5.5 to 28	-40 to 150	52 kByte	●	4 kByte	–	4 kByte	●	selectable	–	–	–	● ●	● ●	13 ch	7 ch	–	–	3 ch	●	●	–	●	–	–	●	–	–	●	
TLE9844QX	●	–	–	VQFN-48	10	Cortex® M0	25	–	–	●	●	●	●	–	5.5 to 28	-40 to 150	64 kByte	●	4 kByte	–	4 kByte	●	selectable	–	–	–	●	● ●	12 ch	7 ch	–	–	3 ch	●	●	–	●	–	–	●	–	–	●	
TLE9844-2QX	●	–	–	VQFN-48	10	Cortex® M0	40	–	–	●	●	●	●	–	5.5 to 28	-40 to 150	64 kByte	●	4 kByte	–	4 kByte	●	selectable	–	–	–	● ●	● ●	13 ch	7 ch	–	–	3 ch	●	●	–	●	–	–	●	–	–	●	
Half-Bridge Driver IC																																												
TLE9845QX	●	–	–	VQFN-48	10	Cortex® M0	40	–	–	●	●	●	●	–	5.5 to 28	-40 to 150	48 kByte	●	4 kByte	–	4 kByte	●	selectable	–	–	–	● ●	● ●	13 ch	7 ch	–	–	3 ch	●	●	–	●	–	–	●	–	–	●	
TLE9850QX	●	–	–	VQFN-48	10	Cortex® M0	40	–	–	●	●	●	●	–	5.5 to 28	-40 to 150	48 kByte	●	4 kByte	–	4 kByte		selectable	–	–	●	●	–	12 ch	9 ch	●	–	3 ch	●	●	–	●	–	–	●	–	–	●	
TLE9851QXW	●	–	–	VQFN-48	10	Cortex® M0	40	–	–	●	●	●	●	–	5.5 to 28	-40 to 175	64 kByte	●	4 kByte	–	4 kByte	●	selectable	–	–	●	●	–	12 ch	9 ch	●	–	3 ch	●	●	–	●	–	–	●	–	–	●	
H-Bridge Driver IC																																												
TLE9852QX	●	–	–	VQFN-48	10	Cortex® M0	40	–	–	●	●	●	●	–	5.5 to 28	-40 to 150	48 kByte	●	4 kByte	–	4 kByte	●	selectable	–	●	–	●	–	11 ch	9 ch	–	–	3 ch	●	●	–	●	–	–	●	–	–	●	
TLE9853QX	●	–	–	VQFN-48	10	Cortex® M0	40	–	–	●	●	●	●	–	5.5 to 28	-40 to 150	48 kByte	●	4 kByte	–	4 kByte	●	selectable	–	●	–	●	–	12 ch	9 ch	●	–	3 ch	●	●	–	●	–	–	●	–	–	●	
TLE9854QX	●	–	–	VQFN-48	10	Cortex® M0	40	–	–	●	●	●	●	–	5.5 to 28	-40 to 150	64 kByte	●	4 kByte	–	4 kByte	●	selectable	–	●	–	●	–	12 ch	9 ch	●	–	3 ch	●	●	–	●	–	–	●	–	–	●	
TLE9854QXW	●	–	–	VQFN-48	10	Cortex® M0	40	–	–	●	●	●	●	–	5.5 to 28	-40 to 150	64 kByte	●	4 kByte	–	4 kByte	●	selectable	–	●	–	●	–	12 ch	9 ch	●	–	3 ch	●	●	–	●	–	–	●	–	–	●	
TLE9855QX	●	–	–	VQFN-48	10	Cortex® M0	40	–	–	●	●	●	●	–	5.5 to 28	-40 to 150	96 kByte	●	4 kByte	–	4 kByte	●	selectable	–	●	–	●	–	12 ch	9 ch	●	–	3 ch	●	●	–	●	–	–	●	–	–	●	
TLE9861QXA20	●	–	–	VQFN-48	10	Cortex® M3	24	–	13 ch	●	●	●	●	–	5.5 to 28	-40 to 150	36 kByte	●	3 kByte	–	4 kByte	●	selectable	–	●	–	–	–	7 ch	10 ch	●	–	3 ch	●	●	●	●	–	–	●	–	–	–	
TLE9862QXA40	●	–	–	VQFN-48	10	Cortex® M4	40	–	13 ch	●	●	●	●	–	5.5 to 28	-40 to 150	256 kByte	●	8 kByte	–	4 kByte	●	selectable	–	●	–	–	–	7 ch	10 ch	●	–	3 ch	●	●	●	●	–	–	●	–	–	●	
TLE9867QXA20	●	–	–	VQFN-48	10	Cortex® M3	24	–	13 ch	●	●	●	●	–	5.5 to 28	-40 to 150	64 kByte	●	6 kByte	–	4 kByte	●	selectable	–	●	–	–	–	7 ch	10 ch	●	–	3 ch	●	●	●	●	–	–	●	–	–	●	
TLE9867QXA40	●	–	–	VQFN-48	10	Cortex® M3	40	–	13 ch	●	●	●	●	–	5.5 to 28	-40 to 150	64 kByte	●	6 kByte	–	4 kByte	●	selectable	–	●	–	–	–	7 ch	10 ch	●	–	3 ch	●	●	●	●	–	–	●	–	–	●	
TLE9867QXW20	●	–	–	VQFN-48	10	Cortex® M3	24	–	13 ch	●	●	●	●	–	5.5 to 28	-40 to 175	64 kByte	●	6 kByte	–	4 kByte	●	selectable	–	●	–	–	–	7 ch	10 ch	●	–	3 ch	●	●	●	●	–	–	●	–	–	●	
TLE9868QXB20	●	–	–	VQFN-48	10	Cortex® M3	20	–	–	●	●	–	●	–	5.5 to 28	-40 to 150	128 kByte	●	4 kByte	–	5 kByte	●	selectable	–	●	–	–	–	6 ch	10 ch	–	● ●	3 ch	●	●	●	●	–	–	●	–	–	●	
TLE9869QXA20	●	–	–	VQFN-48	10	Cortex® M3	24	–	13 ch	●	●	●	●	–	5.5 to 28	-40 to 150	128 kByte	●	6 kByte	–	4 kByte	●	selectable	–	●	–	–	–	7 ch	10 ch	●	–	3 ch	●	●	●	●	–	–	●	–	–	●	

32-bit Embedded Power ICs based on Arm® Cortex® M

Product type/ partnumber	Markets			Package	GPIOs	Core		System					Debug		Supply voltage [V]	Operating temperature range T _A [°C]	Memory					Fast LIN BSL bootloader	Peripherals clock [MHz]	Driver circuits					Analog				Timer				SPI	Dual SPI	Quad SPI	UART/SCI	IIC/I ² C	IIS/I ³ S	LIN
	Automotive	Industrial	Consumer			Processor type	Core frequency [MHz]	ERU	DMA	MPU	Watchdog	Real-time clock	SWD, SPD	JTAG, Trace			Flash [kByte]	ECC	RAM [kByte]	Cache	EEPROM emulation in flash [kByte]			MOSFET half bridge driver with double stage charge pump			High side switches	Low side switches	No. of 10-bit ADC channels	No. of 8-bit ADC channels	Operational amplifier	ΔΣ ADC	CCU6	GPT12	Timer 2/21	Timer 3							
																								3 phase	2 phase	1 phase																	
3-Phase Bridge Driver IC																																											
TLE9871QXA20	●	–	–	VQFN-48	10	Cortex® M3	24	–	13 ch	●	●	●	●	–	5.5 to 28	-40 to 150	36 kByte	●	3 kByte	–	4 kByte	●	selectable	●	–	–	–	–	7 ch	9 ch	●	–	3 ch	●	●	●	●	–	–	●	–	–	–
TLE9872QTW40	●	–	–	TQFP-48	10	Cortex® M3	40	–	13 ch	●	●	●	●	–	5.5 to 28	-40 to 175	256 kByte	●	8 kByte	–	4 kByte	●	selectable	●	–	–	–	–	7 ch	9 ch	●	–	3 ch	●	●	●	●	–	–	●	–	–	●
TLE9872QXA40	●	–	–	VQFN-48	10	Cortex® M3	40	–	13 ch	●	●	●	●	–	5.5 to 28	-40 to 150	256 kByte	●	8 kByte	–	4 kByte	●	selectable	●	–	–	–	–	7 ch	9 ch	●	–	3 ch	●	●	●	●	–	–	●	–	–	●
TLE9872-2QXA40	●	–	–	VQFN-48	10	Cortex® M3	40	–	14 ch	●	●	●	●	–	5.5 to 28	-40 to 150	256 kByte	●	8 kByte	–	4 kByte	●	selectable	●	–	–	–	–	7 ch	9 ch	●	● ●	3 ch	●	●	●	●	–	–	●	–	–	●
TLE9873QXW40	●	–	–	VQFN-48	10	Cortex® M3	40	–	13 ch	●	●	●	●	–	5.5 to 28	-40 to 175	48 kByte	●	3 kByte	–	4 kByte	●	selectable	●	–	–	–	–	7 ch	9 ch	●	–	3 ch	●	●	●	●	–	–	●	–	–	●
TLE9877QXA20	●	–	–	VQFN-48	10	Cortex® M3	24	–	13 ch	●	●	●	●	–	5.5 to 28	-40 to 150	64 kByte	●	6 kByte	–	4 kByte	●	selectable	●	–	–	–	–	7 ch	9 ch	●	–	3 ch	●	●	●	●	–	–	●	–	–	●
TLE9877QTW40	●	–	–	TQFP-48	10	Cortex® M3	40	–	13 ch	●	●	●	●	–	5.5 to 28	-40 to 175	64 kByte	●	6 kByte	–	4 kByte	●	selectable	●	–	–	–	–	7 ch	9 ch	●	–	3 ch	●	●	●	●	–	–	●	–	–	●
TLE9877QXA40	●	–	–	VQFN-48	10	Cortex® M3	40	–	13 ch	●	●	●	●	–	5.5 to 28	-40 to 150	64 kByte	●	6 kByte	–	4 kByte	●	selectable	●	–	–	–	–	7 ch	9 ch	●	–	3 ch	●	●	●	●	–	–	●	–	–	●
TLE9877QXW40	●	–	–	VQFN-48	10	Cortex® M3	40	–	13 ch	●	●	●	●	–	5.5 to 28	-40 to 175	64 kByte	●	6 kByte	–	4 kByte	●	selectable	●	–	–	–	–	7 ch	9 ch	●	–	3 ch	●	●	●	●	–	–	●	–	–	●
TLE9879QTW40	●	–	–	TQFP-48	10	Cortex® M3	40	–	13 ch	●	●	●	●	–	5.5 to 28	-40 to 175	128 kByte	●	6 kByte	–	4 kByte	●	selectable	●	–	–	–	–	7 ch	9 ch	●	–	3 ch	●	●	●	●	–	–	●	–	–	●
TLE9879QXA20	●	–	–	VQFN-48	10	Cortex® M3	24	–	13 ch	●	●	●	●	–	5.5 to 28	-40 to 150	128 kByte	●	6 kByte	–	4 kByte	●	selectable	●	–	–	–	–	7 ch	9 ch	●	–	3 ch	●	●	●	●	–	–	●	–	–	●
TLE9879QXA40	●	–	–	VQFN-48	10	Cortex® M3	40	–	13 ch	●	●	●	●	–	5.5 to 28	-40 to 150	128 kByte	●	6 kByte	–	4 kByte	●	selectable	●	–	–	–	–	7 ch	9 ch	●	–	3 ch	●	●	●	●	–	–	●	–	–	●
TLE9879-2QXA40	●	–	–	VQFN-48	10	Cortex® M3	40	–	14 ch	●	●	●	●	–	5.5 to 28	-40 to 150	128 kByte	●	6 kByte	–	4 kByte	●	selectable	●	–	–	–	–	7 ch	9 ch	●	● ●	3 ch	●	●	●	●	–	–	●	–	–	●
TLE9879QXW40	●	–	–	VQFN-48	10	Cortex® M3	40	–	13 ch	●	●	●	●	–	5.5 to 28	-40 to 175	128 kByte	●	6 kByte	–	4 kByte	●	selectable	●	–	–	–	–	7 ch	9 ch	●	–	3 ch	●	●	●	●	–	–	●	–	–	●

Legacy: 16/32-bit Microcontroller

Product type	Automotive	Industrial	Consumer	Temperature ranges	Package	Max clock frequency [MHz]	Program memory [kByte]	SRAM (incl. cache) [kByte]	Co-processor	Digital I/O lines	Number of ADC channels	Timed IO channels (PWM, capture)	External bus interface	CAN nodes	Ethernet	Communication interfaces	Additional features / remarks
XC2000 for automotive applications																	
XC2200 for body applications																	
U-series																	
XC2220U	●	-	-	F, K	VQFN-48	40	32-64	8	MAC	33	10	17	●	-	-	1x USIC	-
L-series																	
XC2224L	●	-	-	F, K	VQFN-48	66	96-160	12	MAC	33	10	23	●	2	-	2x USIC	-
XC2234L	●	-	-	F, K	LQFP-64	66	96-160	12	MAC	49	19	24	●	2	-	2x USIC	CuWb
N-series																	
XC2238N	●	-	-	F, K	LQFP-64	80	192-320	34	MAC	38	9	22	●	6	-	4x USIC	CuWb
XC2268N	●	-	-	F, K	LQFP-100	80	192-320	34	MAC	76	16	32	●	6	-	6x USIC	CuWb
M-series																	
XC2237M	●	-	-	F, K	LQFP-64	80	448-832	50	MAC	38	9	22	●	6	-	6x USIC	-
XC2267M	●	-	-	F, K	LQFP-100	80	448-832	50	MAC	76	16	32	●	6	-	8x USIC	CuWb
XC2287M	●	-	-	F, K	LQFP-144	80	448-832	50	MAC	119	24	44	●	6	-	8x USIC	CuWb
I-series																	
XC2269I	●	-	-	F, K	LQFP-100	128	1088	90	MAC	76	19	32	●	6	-	10x USIC, 2x FlexRay	CuWb
XC2289I	●	-	-	F, K	LQFP-144	128	1088	90	MAC	118	28	44	●	6	-	10x USIC, 2x FlexRay	CuWb
H-series																	
XC2289H	●	-	-	F, K	LQFP-144	100	1600	138	MAC	119	24	44	●	4	-	10x USIC, 2x FlexRay	-
XC2299H	●	-	-	F, K	LQFP-176	100	1600	138	MAC	150	30	66	●	6	-	10x USIC, 2x FlexRay	-
XC2300 for safety applications																	
A-series																	
XC2336A	●	-	-	F, K	LQFP-64	40	448-832	50	MAC	38	9	24	●	2	-	4x USIC	-
XC2365A	●	-	-	F, K	LQFP-100	80	448-832	50	MAC	76	16	24	●	3	-	6x USIC	CuWb
XC2387A	●	-	-	F, K	LQFP-144	80	448-832	50	MAC	119	24	32	●	3	-	6x USIC	CuWb
B-series																	
XC2336B	●	-	-	F, K	LQFP-64	80	320	34	MAC	38	9	20	●	2	-	4x USIC	CuWb
XC2365B	●	-	-	F, K	LQFP-100	80	192-320	18-34	MAC	76	16	24	●	3	-	6x USIC	CuWb
C-series																	
XC2388C	●	-	-	F, K	LQFP-144	100	1088-1600	138	MAC	119	24	32	●	4	-	10x USIC, 2x FlexRay	-

Legacy: 16/32-bit Microcontroller

Product type	Automotive	Industrial	Consumer	Temperature ranges	Package	Max clock frequency [MHz]	Program memory [kByte]	SRAM (incl. cache) [kByte]	Co-processor	Digital I/O lines	Number of ADC channels	Timed IO channels (PWM, capture)	External bus interface	CAN nodes	Ethernet	Communication interfaces	Additional features / remarks
XC2300 for safety applications																	
D-series																	
XC2321D	●	-	-	F, K	VQFN-48	80	96–160	12	MAC	33	10	23	●	2	-	2x USIC	-
XC2331D	●	-	-	F, K	LQFP-64	80	96–160	12	MAC	49	19	24	●	2	-	2x USIC	CuWb
E-series																	
XC2368E	●	-	-	F, K	LQFP-100	128	576–1088	90	MAC	75	16	32	●	3	-	6x USIC, 2x FlexRay	CuWb
XC2388E	●	-	-	F, K	LQFP-144	128	576–1088	90	MAC	118	24	32	●	3	-	8x USIC, 2x FlexRay	CuWb
S-series																	
XC2320S	●	-	-	F, K	VQFN-48	66	32–64	8	MAC	33	10	17	●	-	-	1x USIC	-
XC2700 for powertrain applications																	
2-series																	
XC2722X	●	-	-	K	VQFN-48	40	64	8	MAC	33	10	17	●	-	-	2x USIC	-
3-series																	
XC2723X	●	-	-	K	VQFN-48	66	160	12	MAC	33	10	23	●	2	-	2x USIC	-
XC2733X	●	-	-	K	LQFP-64	66	160	12	MAC	49	19	24	●	2	-	2x USIC	CuWb
4-series																	
XC2734X	●	-	-	K	LQFP-64	80	320	34	MAC	38	9	20	●	2	-	4x USIC	CuWb
XC2764X	●	-	-	K	LQFP-100	80	320	34	MAC	76	16	24	●	2	-	4x USIC	CuWb
5-series																	
XC2765X	●	-	-	K	LQFP-100	80	576–832	50	MAC	76	16	37	●	2	-	4x USIC	CuWb
XC2785X	●	-	-	K	LQFP-144	80	576–832	50	MAC	119	24	44	●	2	-	4x USIC	CuWb
7-series																	
XC2787X	●	-	-	K	LQFP-144	100	1600	138	MAC	119	24	60	●	2	-	6x USIC	-
8-series																	
XC2768X	●	-	-	K	LQFP-100	128	1088	90	MAC	76	19	32	●	2	-	10x USIC, 2x FlexRay	CuWb
XC2788X	●	-	-	K	LQFP-144	128	1088	90	MAC	118	28	44	●	2	-	10x USIC, 2x FlexRay	CuWb

MAC = Multiply-Accumulate-Unit (DSP)
USIC = ASC, SPI, I²C, I²S

F = -40/+85 °C
K = -40/+125 °C

Legacy: 16-bit Industrial Microcontroller

Product type	Automotive	Industrial	Consumer	Temperature ranges	Package	Max clock frequency [MHz]	Program memory [kByte]	SRAM (incl. cache) [kByte]	Co-processor	Digital I/O lines	Number of ADC channels	Timed I/O channels (PWM, capture)	External bus interface	CAN nodes	Ethernet	Communication interfaces	Additional features / remarks
XE166 real time signal controller for industrial and multi market																	
Classic series - alpha line																	
XE164x	–	●	●	F, K	LQFP-100	66/80	768	24–82	MAC	75	11–16	30–37	●	0–4	–	4–6x USIC	–
XE167x	–	●	●	F, K	LQFP-144	66/80	768	28–82	MAC	118	16–24	30–44	●	0–5	–	4–6x USIC	–
U series - compact line																	
XE161x	–	●	●	F, K	VQFN-48	40/66	64	8	MAC	33	10	15	–	–	–	2x USIC	–
L series - econo line																	
XE161x	–	●	●	F, K	VQFN-48	66/80	128–160	12	MAC	33	10	21	–	1	–	4x USIC	–
XE162x	–	●	●	F, K	LQFP-64	66/80	96–160	12	MAC	48	19	21	–	2	–	4x USIC	CuWb
N series - value line																	
XE162xN	–	●	●	F, K	LQFP-64	80	128–320	18–34	MAC	40	9	23	●	0–2	–	6x USIC	CuWb
XE164xN	–	●	●	F, K	LQFP-100	–	128–320	18–34	MAC	75	11–16	30	●	0–2	–	4–6x USIC	CuWb
M series - base line																	
XE162xM	–	●	●	F, K	LQFP-64	80	384–576	24–50	MAC	40	9	23	–	0–2	–	6x USIC	–
XE164xM	–	●	●	F, K	LQFP-100	80	384–576	26–50	MAC	76	11–16	30–37	●	0–4	–	4–6x USIC	CuWb
XE167xM	–	●	●	F, K	LQFP-144	80	384–576	34–50	MAC	119	16–24	30–44	●	0–6	–	4–8x USIC	CuWb
H series - high line																	
XE167xH	–	●	●	F, K	LQFP-144	100	1.024–1.600	138	MAC	98–118	24	60	●	6	–	10x USIC	–
XE169xH	–	●	●	F, K	LQFP-176	100	1.024–1.600	138	MAC	98–118	30	60	●	6	–	10x USIC	–

MAC

= Multiply-Accumulate-Unit (DSP)

USIC

= ASC, SPI, I²C, I²S

F

= -40/+85 °C

K

= -40/+125 °C

Legacy: 8-bit Microcontroller

Product type		Automotive	Industrial	Consumer	Temperature ranges	Package	Max clock frequency [MHz]	Program memory [kByte]	SRAM (incl. cache) [kByte]	Co-processor	Digital I/O lines	Number of ADC channels	Timed I/O channels (PWM, capture)	External bus interface	CAN nodes	Ethernet	Communication interfaces	Additional features / remarks
C500 family																		
C505CA-4EM /-IM		●	●	●	F, B, K	MQFP-44	20	0	1.25	–	34	8	4	–	1	–	1x USART	OTP, ROM less
C515C-8EM		●	●	●	F, B, K	MQFP-80	10	64	2.25	–	49	8	4	–	1	–	1x USART, 1x SSC	OTP
XC800 family																		
XC82x-series																		
XC822MT		●	●	●	F, K	TSSOP-16	24	2–4	0.5	–	17	4	4	–	–	–	1x UART, 1x SSC, IIN	–
XC83x-series																		
XC836MT		●	●	●	F, K, L	TSSOP-28	24	4–8	0.5	VC	25	8	4	–	–	–	1x UART, 1x SSC, IIN	–
XC86x-series																		
XC866		●	●	●	F, K, A, L	TSSOP-38	26.67	4–16	0.75	–	27	8	4	–	–	–	1x UART, 1x SSC	–
XC866I		●	●	●	F, K, A, L	TSSOP-38	26.67	4–16	0.75	–	27	8	4	–	–	–	1x UART, IIN BSI, 1x SSC	–
XC87x-series																		
XC878		●	●	●	F, K, X	IQFP-64	27	52–64	3	[VC]	48	8	10	●	[2]	–	2x UART, 1x SSC, [IIN]	–
XC88x-series																		
XC886		●	●	●	F, K, A, L	TQFP-48	24	24–32	1.75	[VC]	34	8	4	–	[2]	–	2x UART, [IIN BSI], [1x SSC]	–
XC888		●	●	●	F, K, [A], [L]	TQFP-64	24	24–32	1.74	[VC]	48	8	4	–	[2]	–	2x UART, [IIN BSI], [1x SSC]	–
CIC family (companion IC)																		
CIC61508		●	●	–	K	TSSOP-38	26.67	–	0.25	–	–	–	–	–	–	–	Safety signature watchdog	Flash

[] = Optional features

MDU = Multiply Divide Unit

LIN BSL = LIN Bootstrap Loader

SSC = Synchronous Serial Channel

VC = Vector Computer (MDU + CORDIC)

A = -40/+140 °C

F = -40/+85 °C

K = -40/+125 °C

L = -40/+150 °C

X = -40/+105 °C

Voltage regulators for Microcontrollers

Microcontroller family	Output voltage [V]	Output current (max) [mA]	Safety support	Voltage regulator	Automotive	Industrial
Legacy 8/16-bit Microcontrollers						
XC8xxx	3.3/5	30	–	TLE4296-2G; TLE4295G	●	–
XC8xxx	3.3/5	30	–	TLE4296-2G; TLE4295G	●	–
XC8xxx	5	300	–	TLS835B2EL; TLS835D2EL	●	–
XC8xxx	5	100	–	TLS810B1EJ; TLS810A1LD	●	–
XC8xxx	3.3/5	400	–	TLF80511TF/ EJ/ TC; TLE42764D; TLS850FxA	●	–
XC8xxx	3.3/5	50	–	TLS810B1EJ; TLS810A1LD	●	–
XC8xxx	5	100	–	TLS810B1EJ; TLS810A1LD	●	–
XE166/XC2000	3.3/5	400	–	TLF80511TF/ EJ/ TC; TLE42764D; TLS850FxA	●	–
XE166/XC2001	5	300	–	TLS835B2EL; TLS835D2EL	●	–
XE166/XC2002	5	100	–	TLS810B1EJ; TLS810A1LD	●	–
XE166/XC2003	5	100	–	TLS810B1EJ; TLS810A1LD	●	–
32-bit XMC™ Arm® Microcontroller						
XMC1000 series	3.3/5	300	–	TLS835B2EL; TLS835D2EL	●	–
XMC1000 series	3.3	150	–	TLE4266-2G; TLS820D3EL	●	–
XMC1000 series	5	100	–	TLS810B1EJ; TLS810A1LD	●	–
XMC1000 series	5	100	–	TLS810B1EJ; TLS810A1LD	●	–
XMC1000 series	3.3/5	400	–	TLF80511TF/ EJ/ TC; TLE42764D; TLS850FxA	●	–
XMC4000 series	3.3/5	500	–	TLF80511TF/ EJ/ TC; TLE42764D; TLS850FxA	●	–
XMC4000 series	3.3/5	300	–	TLS835B2EL; TLS835D2EL	●	–
32-bit AURIX™ TriCore™ Microcontroller						
AURIX TC21x/22x/23x	3.3	150/500	ASIL-D	TLF35584	●	–
AURIX TC21x/22x/23x	3.3	150/500	QM/ASIL-B	TLF502x1/TLS4120	●	–
AURIX TC21x/22x/23x	3.3	150/500	QM/ASIL-B	TLE9461/TLE9471	●	–
AURIX TC26x/27x/29x	3.3/5	250/400/500	ASIL-D	TLF35584	●	–
AURIX TC26x	3.3/5	250/400/500	QM/ASIL-B	TLE926xB/TLE9471	●	–
AURIX TC27x/29x	3.3/5	500	QM/ASIL-B	TLE9471	●	–
AURIX TC33x	3.3/5	250/400/500	QM/ASIL-B	TLE926xB/TLE9471	●	–
AURIX TC33x A	3.3/5	–	QM/ASIL-B	TLF30681	●	–
AURIX TC35x A	3.3/5	750	ASIL-B	TLF30682	●	–
AURIX TC35x A	3.3/5	750	QM/ASIL-B	TLE927x/TLE9278B	●	–
AURIX TC36x/37x	3.3/5	500	QM/ASIL-B	TLE9471	●	–
AURIX TC37x	3.3/5	500	ASIL-D	TLF35584	●	–
AURIX TC38x/TC39x	3.3/5	750	ASIL-D	TLF35584 & TLF11251	●	–
AURIX TC38x/TC39x	3.3/5	750	QM/ASIL-B	TLE927x/TLE9278B	●	–
AURIX TC2xx & TC3xx	3.3/5	1000	–	TLS4120D0EPV	●	–
AURIX TC2xx & TC3xx	3.3/5	1800	–	TLS4120D0EPV	●	–
AURIX TC2xx & TC3xx	3.3/5	2300	–	TLS4125D0EPV	●	–
AURIX TC2xx & TC3xx	3.3/5	400	–	TLF80511TF/ EJ/ TC; TLE42764D; TLS850FxA	●	–
AURIX TC2xx & TC3xx	3.3/5	1000	–	TLS4120D0EPV	●	–



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