



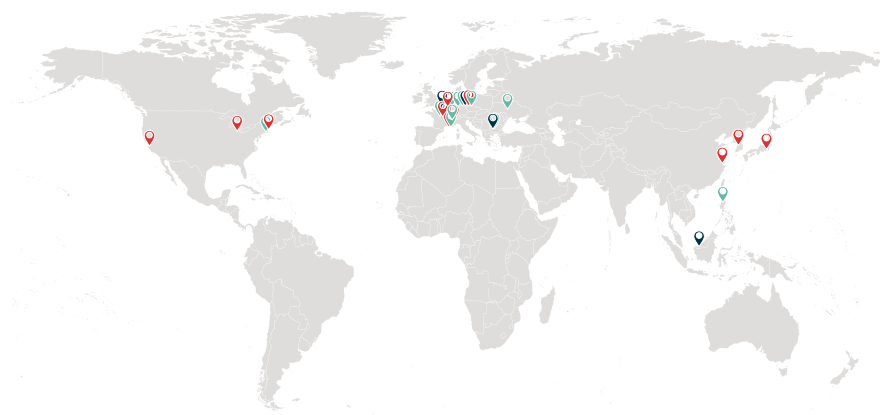
International Presence

www.melexis.com/sales-contact

Europe, Middle East and Africa
sales_europe@melexis.com

Asia and Oceania
sales_asia@melexis.com

Americas
sales_usa@melexis.com



- Research & Development
- Sales & Applications
- Manufacturing



WWW.MELEXIS.COM



SELECTION GUIDE

AUTOMOTIVE LED AND RGB LED CONTROLLER

We incorporate the newest and most operationally intensive LIN network applications into next generation vehicles.

LIN lighting products for Ambient lighting and slow animated lighting																	
	Part Number/Ordering Code	MCU	IC Supply Voltage	LED Supply Voltage	Program Memory	EEPROM	RAM	Boot-loader	#LED Driver	LED Current per Driver	PWM Resolution	ADC Resolution	LIN AutoAddress	Special Feature	Temperature Range	Package	Status
GEN 1	MLX81108KDC-CAE-000-RE	16-bit RISC	5.5 to 18 V	IC Supply	32 KB Flash	380 B	1 KB	LIN fast-LIN	4	48 mA	16-bit	10-bit	Yes	-	-40 to 125°C	SOIC-8 fused	PPAP / Production
	MLX81109KLW-CAE-100-RE	16-bit RISC	5.5 to 18 V	IC Supply	32 KB Flash	380 B	1 KB	LIN fast-LIN	4	48 mA	16-bit	10-bit	Yes	8-digital IO's 5.6V Vref output	-40 to 125°C	QFN20 5x5	PPAP / Production
GEN 2	MLX81112KDC-AAD-000-RE	16-bit RISC	5.5 to 18 V	IC Supply	32 KB Flash +System ROM	256 B	2 KB	LIN fast-LIN	4	48 mA	16-bit	10-bit	Yes	-	-40 to 125°C	SOIC-8 fused	PPAP / Production
	MLX81115KLW-AAD-100-RE	16-bit RISC	5.5 to 18 V	IC Supply	32 KB Flash +System ROM	256 B	2 KB	LIN fast-LIN	6	48 mA	16-bit	10-bit	Yes	-	-40 to 125°C	DFN12 4x4	PPAP / Production
	MLX81120KLW-AAD-100-RE	16-bit RISC	5.5 to 18 V	IC Supply	32 KB Flash +System ROM	256 B	2 KB	LIN fast-LIN	4	48 mA	16-bit	10-bit	Yes	LIN-Master-Slave Gateway	-40 to 125°C	DFN12 4x4	PPAP / Production
GEN 3	MLX81113KDC-BAB-000-RE	16-bit pipelined RISC	4.5 to 18 V	IC Supply	32 KB Flash +System ROM	368 B	2 KB	PPM	4	60 mA	16-bit	10-bit	Yes	-	-40 to 125°C	SOIC-8ep	PPAP / Production
	MLX81113KDC-BBB-000-RE	16-bit pipelined RISC	4.5 to 18 V	IC Supply	32 KB Flash +System ROM	368 B	2 KB	LIN fast-LIN	4	60 mA	16-bit	10-bit	Yes	-	-40 to 125°C	SOIC-8ep	PPAP / Production
	MLX81113KLW-BAB-000-RE	16-bit pipelined RISC	4.5 to 18 V	IC Supply	32 KB Flash +System ROM	368 B	2 KB	PPM	4	60 mA	16-bit	10-bit	Yes	-	-40 to 125°C	DFN10 3x3	PPAP / Production
	MLX81113KLW-BBB-000-RE	16-bit pipelined RISC	4.5 to 18 V	IC Supply	32 KB Flash +Systm ROM	368 B	2 KB	LIN fast-LIN	4	60 mA	16-bit	10-bit	Yes	-	-40 to 125°C	DFN10 3x3	PPAP / Production
	MLX81114KDC-AAB-000-RE	16-bit pipelined RISC	4.5 to 18 V	IC Supply	32 KB Flash +System ROM	368 B	2 KB	LIN fast-LIN	4	60 mA	16-bit	10-bit	Yes	Access protection	-40 to 125°C	SOIC-8ep	PPAP / Production
	MLX81118KLW-XYZ-123-RE	16-bit pipelined RISC	3 to 18 V	5.5 to 28 V	32 KB Flash +System ROM	368 B	2 KB	LIN fast-LIN	24	60 mA	16-bit	10-bit	Yes	Independent LED supply	-40 to 125°C	QFN32 5x5"	PPAP / Production
GEN 4	MLX81123KDC-XYZ-123-RE	16-bit pipelined RISC	4.5 to 18 V	IC Supply	32 KB Flash +System ROM	512 B	2 KB	LIN fast-LIN	4	60 mA	16-bit	12-bit	Yes	-	-40 to 125°C	SOIC-8ep	PPAP / Production
	MLX81123KLW-XYZ-123-RE	16-bit pipelined RISC	4.5 to 18 V	IC Supply	32 KB Flash +System ROM	512 B	2 KB	LIN fast-LIN	4	60 mA	16-bit	12-bit	Yes	-	-40 to 125°C	DFN8 3x3	PPAP / Production
GEN 5	MLX81124KDC-XYZ-123-RE	16-bit pipelined RISC	4.5 to 18 V	IC Supply	32 KB Flash +System ROM	512 B	2 KB	LIN fast-LIN	4	60 mA	16-bit	12-bit	Yes	-	-40 to 125°C	SOIC-8ep	PPAP / Production

MeLiBu® products for high speed animated lighting (smart light)																	
	Part Number/Ordering Code	MCU	IC Supply Voltage	LED Supply Voltage	Program Memory	EEPROM	RAM	Max Comm. Speed	# LED Driver	LED Current per Channel	PWM Resolution	ADC Resolution	Extra LED supply/ LED Multiplexing	Special Feature	Temperature Range	Package	Status
GEN 1	MLX81116KLW-AAC-100-RE	16-bit pipelined RISC	5.5 to 28V	IC Supply	32 KB Flash +System ROM	368 B	2 KB	1 Mbit/s	12	60mA	16-bit	10-bit	no / yes (12 x 3)		-40 to 125°C	QFN24 4x4	PPAP / Production
	MLX81116KLW-AAE-100-RE	16-bit pipelined RISC	5.5 to 28V	IC Supply	32 KB Flash +System ROM	368 B	2 KB	2 Mbit/s	12	60mA	16-bit	10-bit	no / yes (12 x 3)		-40 to 125°C	QFN24 4x4	PPAP / Production
	MLX81117KLW-AAA-000-RE	16-bit pipelined RISC	5.5 to 28V	3 to 28V	32 KB Flash +System ROM	368 B	2 KB	2 Mbit/s	16	60mA	16-bit	10-bit	yes / no	Independent LED supply	-40 to 125°C	QFN32 5x5	PPAP / Production
	MLX81143KLW-XYZ-123-RE	16-bit pipelined RISC	5.5 to 28V	2.5 to 10V	32 KB Flash +System ROM	368 B	4 KB	2 Mbit/s	21	60 mA	16-bit	10-bit	yes / yes (21 x 2)	Independent LED supply	-40 to 125°C	QFN32 5x5	PPAP / Production
GEN 2	MLX80142KLW-AAx-000-RE	Statemachine	5 to 12V	3 to 12V	/	/	/	4 Mbit/s	6	60 mA	16-bit	12-bit	yes / no	LED supplied by DC/DC	-40 to 125°C	QFN16 3x4	PPAP / Production

