



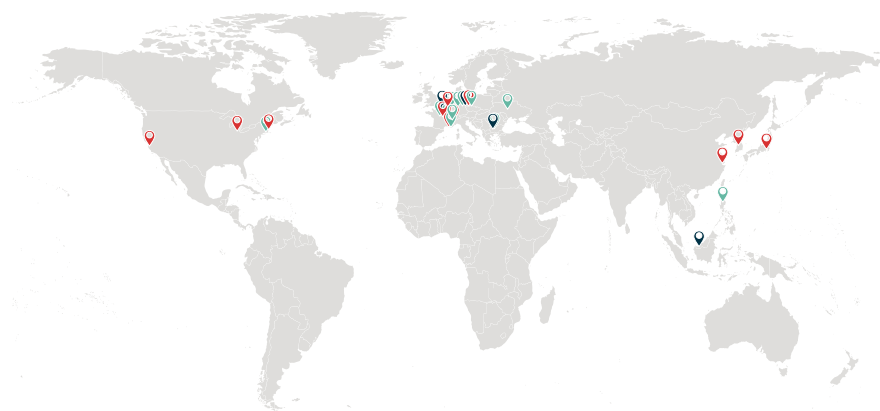
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SELECTION GUIDE

**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

