Melexis

INSPIRED ENGINEERING

SELECTION GUIDE

LIN RGB - SBC

Chameleons are famous for their quick skin color-changing abilities. They change color in response to environmental changes. We therefore link these wonderful creatures to our LIN RGB products which enable changing ambient light according to the car driver's preference.

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

LIN transceiver and system basic ICs overview - Cross reference List

Part Number	MLX80020	MLX80002	MLX80004	MLX80050	MLX80030	MLX80051	MLX80031
# LIN	1	2	4	1	1	1	1
Supply voltage	5 to 18V (26V)						
Output Voltage	n.a.	n.a.	n.a.	5V	3.3V	5V	3.3V
Output current	no	no	no	70mA (thermally limited from package)			
RESET Output	no	no	no	yes	yes	yes	yes
Window Watchdog	no	no	no	no	no	yes	Yes
Package	SOIC8	QFN4x4 24 pins	QFN4x4 24 pins	SOIC8	SOIC8	QFN5x5 20pins	QFN5x5 20pins
LIN Spec	LIN 2.x, J2602						
Temp. Range	-40 to 125°C						
Status	PPAP AECQ-100/Production						

Quick Reference Ambient Lighting - Overview of family of LIN RGB products

	GEN 1					GEN 2		
Part Number	MLX81106	MLX81107	MLX81108	MLX81109	MLX80110	MLX81112	MLX81115	MLX81120
Supply voltage	5 to 18V (26V)							
Program Memory	24k Flash		32k Flash		32kB ROM	32k Flash +16k ROM		
User EEPROM	380Byte					380Byte		
RAM	1K					2k		
High Voltage IO Count	4					4	6	4
Low voltage IO Count	-	8	-	8	-			
Direct RGB LED Support	1					1	2	1
Special Feature	-	5V IREF Out	-	5V IREF Out	-	-	-	LIN to LIN gateway
Temp. Range	-40 to 125°C					-40 to 125°C		
Package	SOIC8	QFN 5x5 20 leads	SOIC8	QFN5x5 20 leads	SOIC8	SOIC8	DFN 4x4 12 leads	DFN 4x4 12 leads
Status	Production				Qualification	Qualification		

SOIC-8

QFN 5x5 20 leads

DFN 4x4 12 leads

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