

LIN RGB LIGHTING

Smart ambience. Seamless integration.

Elevate your automotive interior designs with the Melexis LIN RGB(W) driver family. From Code-Free to the versatile versions, our portfolio delivers precise color mixing and functional status lighting in compact, cost-effective packages. These drivers enable personalized, mood-enhancing cabin environments using the standard LIN bus - perfect for robust, low-speed ambient transitions.



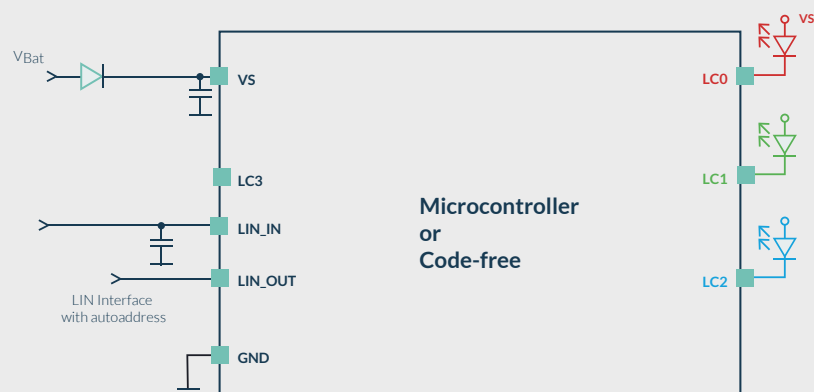
Key features

- ✓ Extended LED control, color mixing and full diagnosis
- ✓ Red/Green and Blue LED temperature compensation
- ✓ Color mixing accuracy of < 1% delta UV
- ✓ Storage of LED calibration data directly within LED driver
- ✓ Programmable calibrated current sources for LED control
- ✓ LIN transceiver with support for auto-addressing
- ✓ ASIL B compliant
- ✓ Compact QFN or SOIC8 package with exposed pad
- ✓ Code free (configurable) or Microcontroller



Highlights

	Control	#Channel	Extra
MLX81115	MCU	6	Dual RGB
MLX81118	MCU	24	Independant LED supply
MLX81119	MCU	18	Integrated DC/DC
MLX81120	MCU	4	LIN-to-LIN gateway
MLX81123 MLX81124	MCU	4	Miniaturization
MLX80124	Code-free <Code Free>	4	Configurable

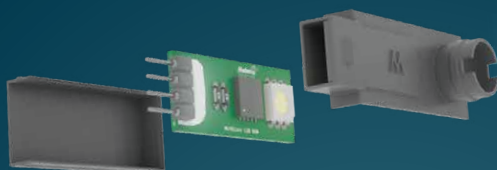


Single-chip
RGB LED
controller

Applications

Interior Illumination & Trim

- Steering wheel illumination
- Surface lighting
- Matrix lighting
- Decorative and integrated trim
- Center stack and console lighting
- Floor and footwell illumination
- Reading lights
- Overhead and roof lighting



Exterior Signaling & Lighting

- Grille & logo illumination
- Rear Combination Lamp (RCL)
- Charge port illumination



melexis.com/
LED-drivers