

Product Information

MLX81106

LIN RGB LED driver for ambient lighting



MLX81106 is a fully integrated LIN Slave IC for driving LIN RGB LEDs as well as other low end LIN slave applications in an automotive environment. It is suitable for bus systems according to LIN 2.x as well as SAE J2602.

The combination of physical layer LIN transceiver and LIN protocol controller and microcontroller in combination with easy to use IO configurations makes it possible to develop in a short timeframe low BOM, but very powerful LIN RGB nodes.



Features

Application Controller

- Internal RC-Oscillator
- 16-bit MCU with Flash memory, RAM, EEPROM with ECC
- Co-processor for MUL and DIV operations

LIN Protocol Controller according to LIN 2.x and SAE J2602

- Baud rate up to 19.2 kBaud
- Frame processing
- Low interrupt load to the application

LIN Transceiver according to LIN 2.x and SAE J2602

- Support for Autoconfig according to bus shunt method
- Support of MiLoc autoconfig system

IO Configuration

- 4 programmable constant current (35mA)/high voltage capable IOs
- 16-bit current modulation outputs
- Interrupt capable Inputs
- 10-bit ADC with integrated Pre-divider connected to all IOs,
- Internal Battery and reference voltage monitor
- LED colour compensation as well as aging compensation

Other Features

- Automotive Temperature Range of -40°C to 125°C
- MLX81106 – SOIC8 thermally enhanced Package

Bus ICs

BLDC Motor
Control ICs

Pressure Sensors

Wireless ICs

Hall Effect ICs
And Sensors

Optoelectronic
Sensors

Sensor Interface ICs

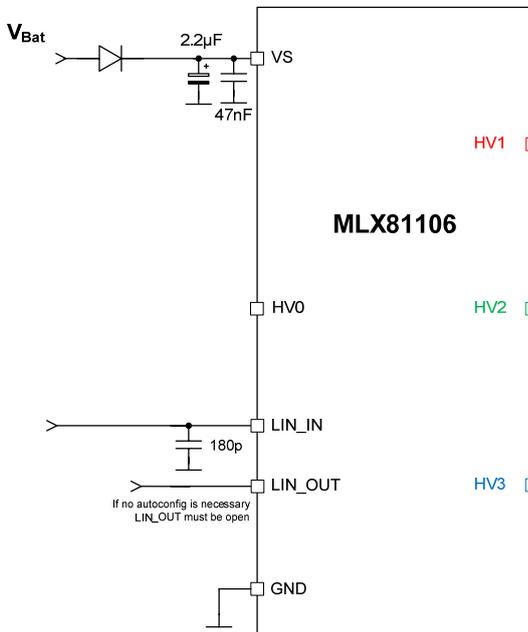
Infrared Sensors



Applications

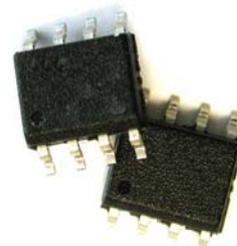
- LIN RGB ambient light slave
- LIN to SPI bridge
- Low end LIN Switch modules
- Resistive ladder LIN module

Easy Application Configuration



Small Package

SOIC8



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Bus ICs
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Optoelectronic Sensors
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