

ANTREX Electronics

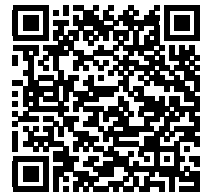
Electronic Components Sourcing Information

Product Reference Information

Part Number: MLX81120KLW-AAD-999-SP
Manufacturer: Melexis Technologies NV
Package: 12-VFDFN Exposed Pad
Availability: Please confirm with sales

Product Page:

<https://antrexco.com/product/details/melexis-technologies-nv/mlx81120klw-aad-999-sp.html>



Scan for product page

Request a Quote:

[Submit RFQ for this part](#)

Contact Information

Email: info@antrexco.com

WhatsApp: +86-186-8066-5326

Website: <https://antrexco.com>

Quality & Trust

New & Original Components

Supplier verification and packaging condition review

CoC / RoHS / REACH documents available on request

Secure sourcing support for OEM / EMS projects

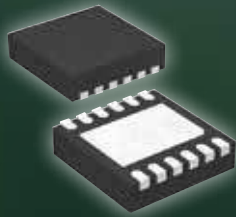
Note:

This PDF includes an ANTREX product reference cover page.

The original manufacturer datasheet follows from the next page.

MLX81120

LIN-TO-LIN GATEWAY



The hummingbird's beating wings flap at extremely high frequencies, typically around 50 times per second. This allows it to fly at speeds exceeding 15 m/s, to fly backwards or to seemingly be suspended in the air in perfect balance. What better animal to reflect the motor/control driver and actuator capacities?

AMBIENT LIGHTING SOLUTIONS

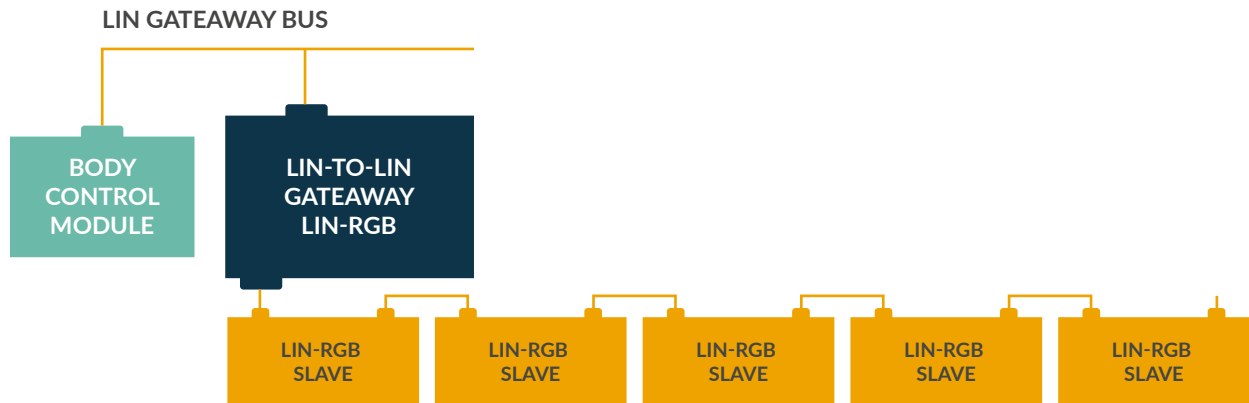
The MLX81120 is a fully integrated LIN Slave IC for ambient light applications. Thanks to four high voltage capable outputs it is possible to drive independently one RGB LED and additionally one white LED, if necessary. It is suitable for bus systems according to LIN 2.x, as well as SAE J2602. The MLX81120 also has an additional UART and LIN physical layer that allows the MLX81120 to act as Master to a private LIN Bus. The combination of two LIN physical layers, LIN protocol controller, microcontroller and easy to use IO configurations make it possible to develop in a short timeframe small BOM, low cost, but very powerful and flexible LIN Slave nodes.

KEY FEATURES

- ✓ Application Controller
 - 16-bit MCU with 32kB Flash with ECC + 16kROM, 2kByte RAM, 380 Byte EEPROM with ECC
 - ROM with LIN Driver, Bootloader, Library
- ✓ LIN PHY & LIN Slave Protocol Controller acc. to LIN 2.x and SAE J2602
 - Baudrate up to 19.2 kBaud
- ✓ 2nd LIN PHY & LIN UART for private LIN master functionality
- ✓ Frame processing, Low interrupt load to the application
- ✓ Autoconfig according bus shunt
- ✓ IO Configuration
 - 3 high voltage inputs/outputs
 - Programmable constant current outputs/high voltage open drain outputs
 - 16-bit PWM outputs
 - Interrupt capable Inputs
 - 10-bit ADC with integrated pre-divider
- ✓ Integrated battery monitor and temperature monitor
- ✓ Voltage Regulator
 - Low standby current consumption of typical 20µA in sleep mode
- ✓ Over-temperature shutdown, load dump protected
- ✓ Automotive Temperature Range of -40°C to 125°C
- ✓ DFN4x4 12 pin package

KEY APPLICATIONS

- ✓ Extension of LIN modules to pass limit of LIN standard
- ✓ Simplification of car architecture
- ✓ Segmentation/zoning of ambient light applications



BLOCK DIAGRAM WITH APPLICATION

