



STATIC AND ANIMATED LIGHTING WITH A SCALABLE ARCHITECTURE

Scalable architecture

Single control for every LED in the car

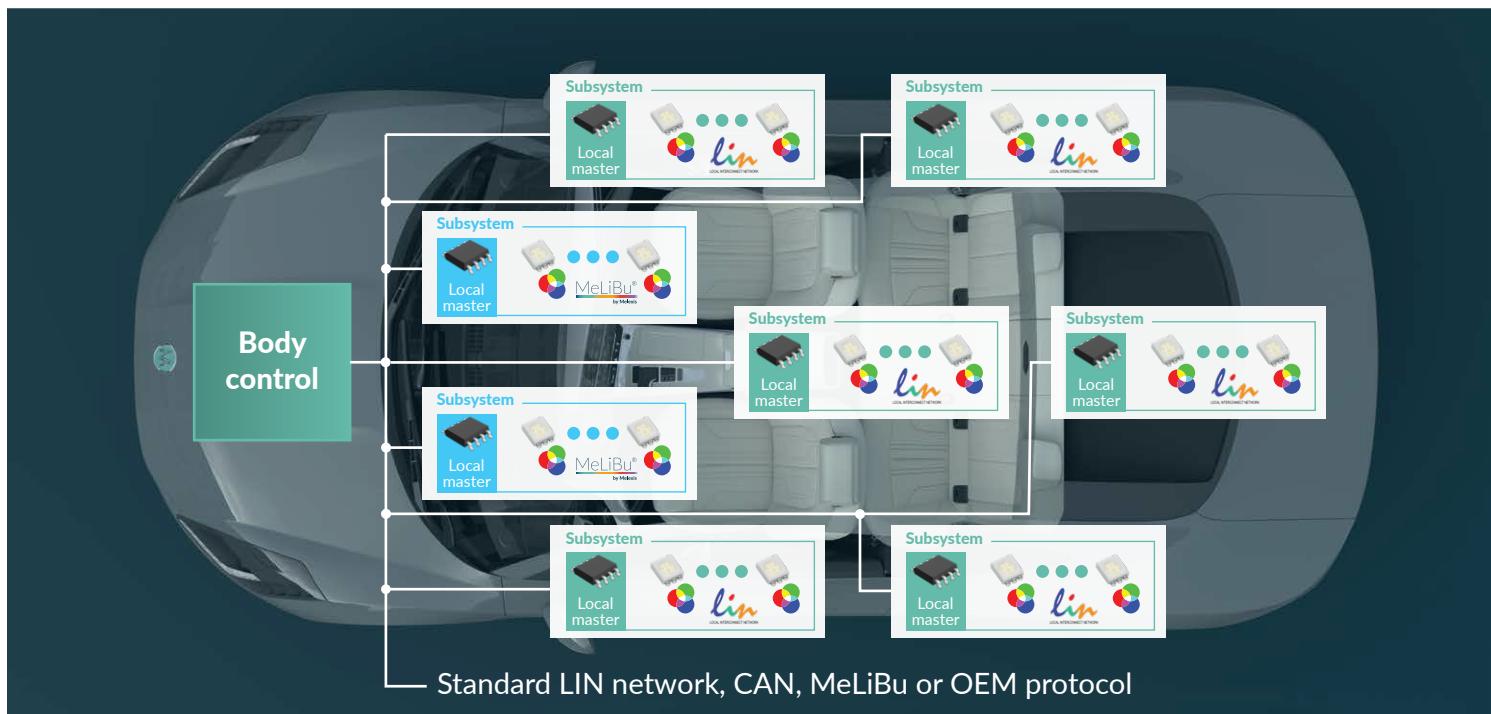
- All LEDs connected via LIN and MeLiBu (UART over CAN)
- Number of RGB LEDs easily scaled
- Light animations for multiple application cases
- Complete synchronization over the whole system

MeLiBu®
by Melexis

lin
LOCAL INTERCONNECT NETWORK

LED drivers working together

- Multi-channel MeLiBu® RGB LED driver for high speed animation
- Single channel LIN RGB system on chip
- LIN to LIN gateway to extend the physical limits of a LIN system



Optimized ICs

- Programmable MCU for full flexibility
- Constant current LED driver allowing accurate control of the LED color & brightness
- Very accurate color mixing via temperature compensation for every LED channel
- EEPROM to store individual LED calibration data
- Integrated communication interface (LIN or MeLiBu)
- Supply system for direct connection to 12V boardnet
- Integrated bootloader (LIN or MeLiBu) or reprogrammable flash (LIN or MeLiBu)
- Best in class EMC behavior to enable wiring across the full car
- Support safety critical application (ASIL B as per ISO26262)

More about our products and solutions



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