Fantastic Design with One IC.

Benefits

- Output current capability up to 40mA per channel
- SOIC8EP package with internal heat slug
- Advanced ESD and ISO pulse robustness
- Internal LIN transceiver with LIN auto addressing

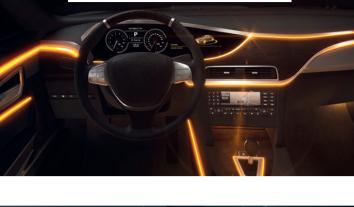
Key Features

- Battery supply voltage 5V to 28V
- 3 high-precision current mode LED driver
- 4 independent PWM generators
- 16 bit resolution and 48MHz clock
- JTAG debug interface usable as GPIO and/or analog input
- Integrated 16 bit microcontroller
- Different internal memory structures: EEPROM, RAM and SysROM
- Different diagnostic features

Overview E521.36

supporting LIN autoaddressing.

40mA.



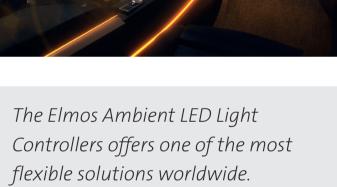
CENTER CONSOLE LIGHT

Position Detection, High Flexibility and LIN Interface.

Design a New Experience.







Furthermore you can control

static and/or dynamic RGB light

application within a LIN bus system.



For power management and temperature compensation the device provides an integrated temperature sensor as well as an supply voltage sensing circuitry. Furthermore, with the ADC in the measurement system and the differential measurement of the forward voltage an effective compensation for ageing and temperature can be implemented

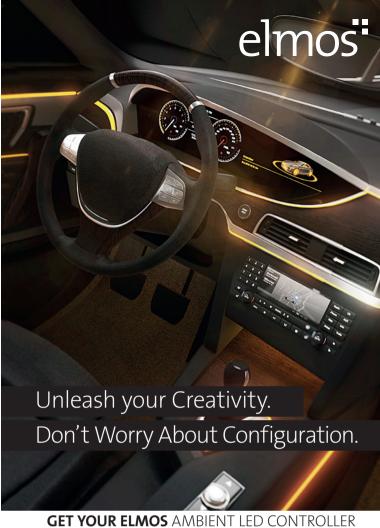
LIN Auto-Addressing

Elmos could successfully implement the established method of auto-addressing for RGB LIN Controller.

The device supports an auto-addressing feature using the bus shunt method (BSM). The auto-addressing feature added to the normal LIN bus functionality allows slave devices to detect their relative position within a bus system.







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The E521.36 is a one chip solution for RGB ambient light

application. It provides an integrated 16-bit microcon-

The integrated current sources can be controlled by a

16bit PWM with a 48MHz clock. This enables PWM cycle

er can be used to drive external loads with currents up to

frequencies up to 700Hz with full resolution. Each driv-

troller with 32kByte memory, EEPROM, a LIN transceiver

Million-times proven reliability and quality

Key features

- Real time measurement results
- Proximity and gesture recognition
- Immunity against ambient light
- Scalable solutions for different display sizes
- Outstanding sunlight immunity

Profit from our experience

- Worldwide #1 supplier for gesture ICs
- More than 40 million ICs are in the field
- More than 10 years of experience
- Ready for super flat and small PCB designs
- Easy to use demonstrators and evaluation kits for all devices

Innovation in Gesture Control Leading in HMI and User Experience (UX)



AIR MAGNIFIER











Reduction of PCB size



Scalable solution



Based on HALIOS® technology >50 Million ICs already in the field How to make a lot happen with a small gesture.



Our solutions - Your benefits

- Proximitiy detection
- Gesture control
- Covers both near and far field
- Easy interaction with touch displays
- Higher flexibility
- Self calibration
- Highest robustness

- Easy to design detection areas
- Low current consumption
- High reliability in harsh automotive environment
- Fast response time
- Excellent cost-benefit ratio
- Unique IR-based scalable solutions

Elmos HALIOS® advantages

- Sensing up to 2 photo diodes
- Embedded LED drivers
- Reduction of required assembly (pick and place handling)
- Reduction of PCB size enables small design areas
- Intuitive touchless interaction
- Automotive qualified (AEC-Q100)

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Simplify your System: One IC, manifold applications, always fantastic performance

