

## Features

- Integrated 16 bit microcontroller
- 32kByte Flash
- 28kByte Flash for EEPROM-emulation, bootblock and up-time-counter
- 1 kByte RAM
- 4 PWM generator 16 bit: 16 bit resolution with  $f_{P_{PWM,CYCLE}}$  up to 500Hz
- 2 timer + 2 capture compare timer 16bit
- ADC 12 bit resolution /  $f_s=1\text{MHz}$
- 2 wire JTAG debug interface (IAR compatible)
- Hardware divider / multiplier
- LIN-Bus transceiver (V2.1) including optional slave node position detection (SNPD)
- LIN UART with autobaud detection < 0.15%
- Voltage regulator 5.0V / 100mA output
- Four LED highside driver (5V)
- Battery supply range 5V to 28 V
- Package QFN32L5

## General Description

The device E521.31 is a LIN controller providing a 16bit microcontroller with two independent Flash memory blocks, a 5V voltage regulator with up to 100mA and a LIN transceiver providing optional auto addressing.

The integrated high side driver controlled by a 16 bit PWM can be used to drive external loads with current up to 50mA each.

For temperature compensation the device provides an integrated temperature sensor.

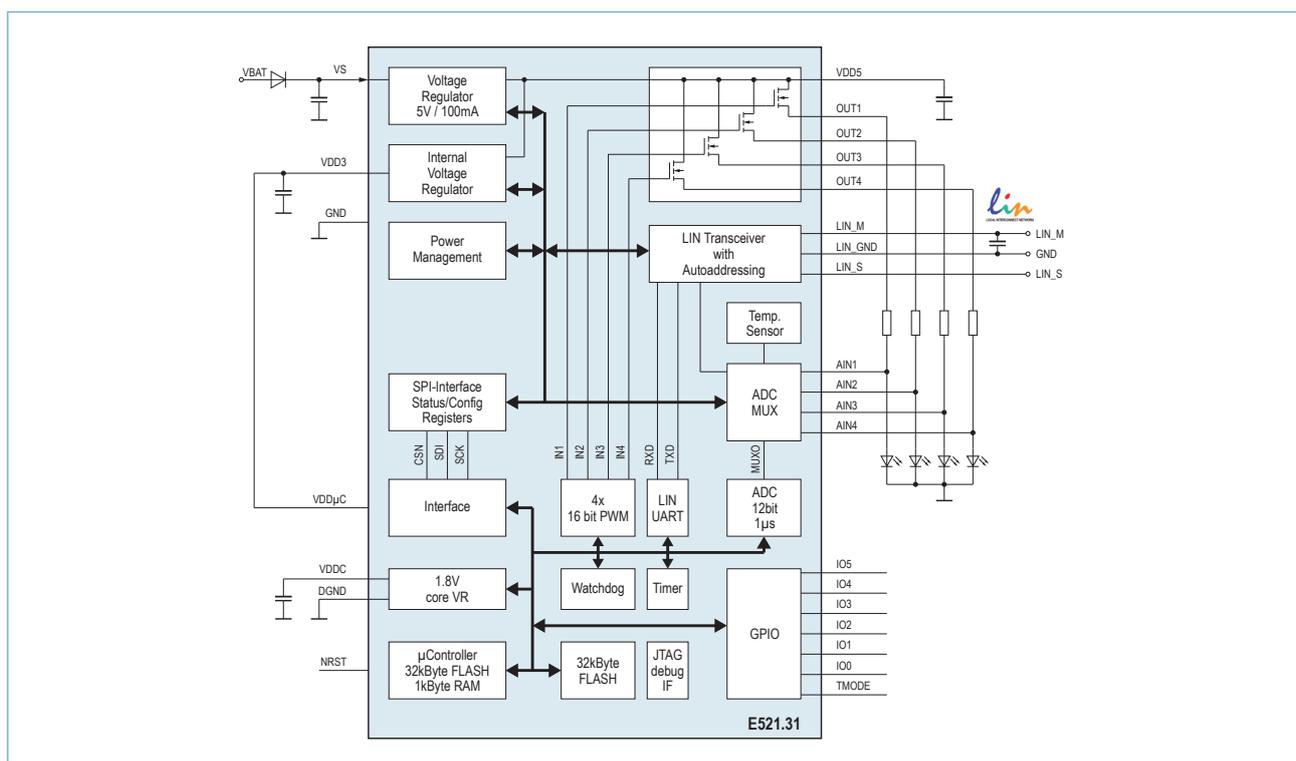
## Ordering Information

Ordering-No.:	Temp Range	Package
E52131B61C	-40°C to +125°C	QFN32L5

## Applications

- Interior light modules

## Typical Application Circuit



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