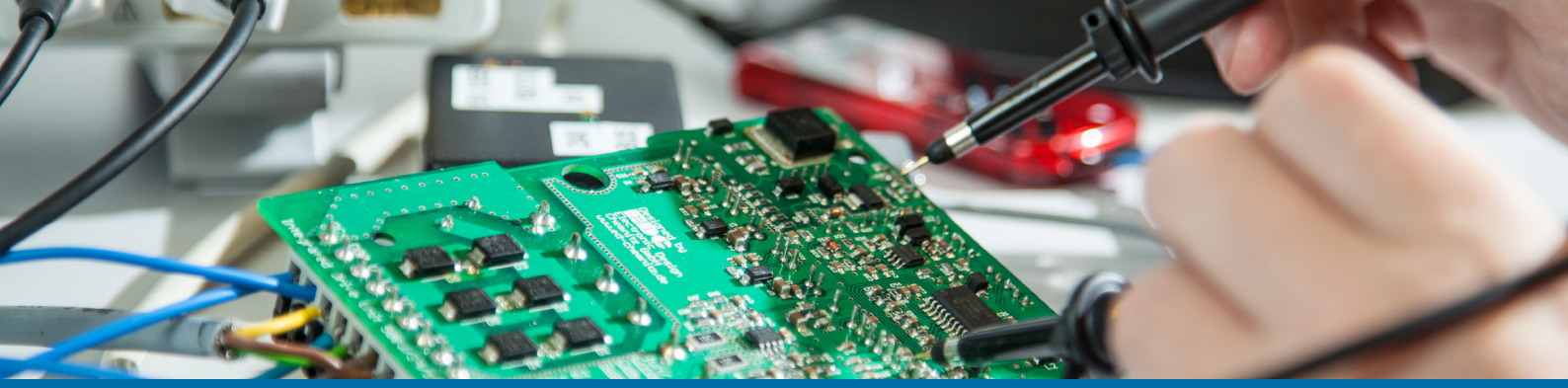


ELECTRONIC DESIGN CHEMNITZ

EDC-LL324

Intelligent 4 Channel LED Driver IC

The EDC-LL324 is a fully integrated LED driver IC, designed for four independent LED strings. The IC can drive constant current in buck or boost topology using peak or valley current regulation.

APPLICATION CIRCUIT EXAMPLE

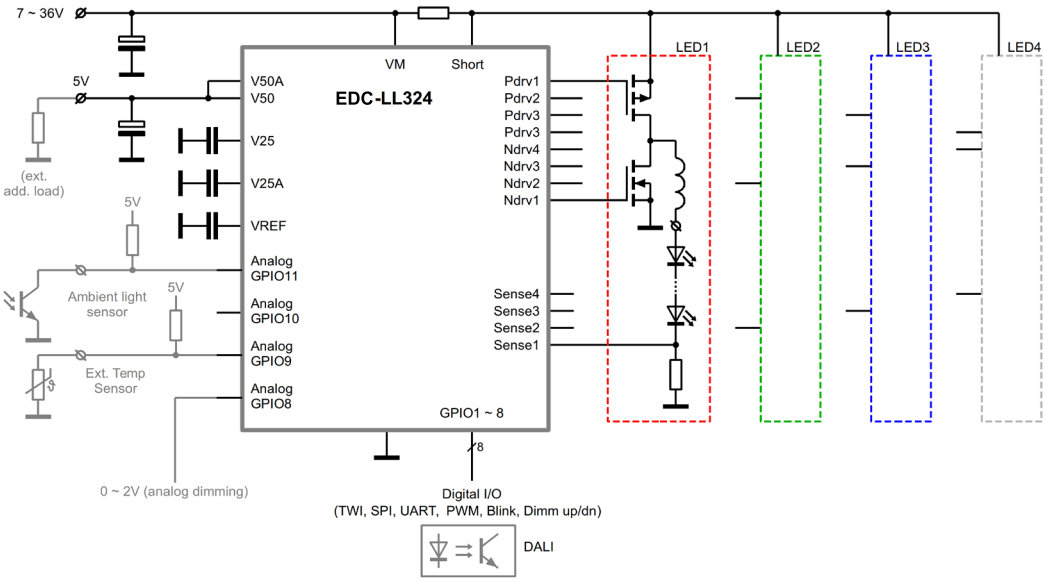
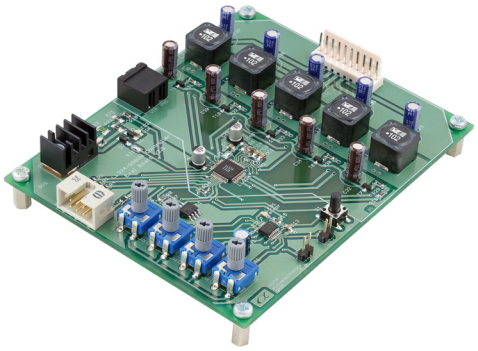


Figure: Simplified application example

FEATURES

- Supply voltage: 7V … 36V
- Internal 5-V linear regulator
- 4 N-channel MOSFET driver
- 4 P-channel MOSFET driver
- 4 adjustable PI regulators
- Fixed frequency PWM engine up to 200kHz
- 16-MHz 8-bit AVR compatible MCU
- 10-bit 2-MSPS ADC
- 4 current sensing amplifiers
- 8 kB OTP memory
- External EEPROM option
- Internal oscillator (2%)
- SPI, I²C, UART
- 8-bit timer, 16-bit timer
- 12 GPIO (4 thereof analog inputs)
- Synchronous rectification option
- Chip-temperature monitor
- Thermal surveillance of LEDs
- Supply voltage monitor
- Ambient temperature range -25°C ... 140°C
- TQFP48 package, dimensions: 7 mm x 7 mm x 1 mm
- RoHS compliant



ORDERING INFORMATION

EDC-LL324-ITQ48T	(TQFP48 - shipment in trays)

DEVELOPMENT TOOLS

- Data Sheet: EDC-DS-LL324
- AVR® GNU C-Compiler and debugger
- Programming and debug interface (programmer or USB interface)
- Evaluation board

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