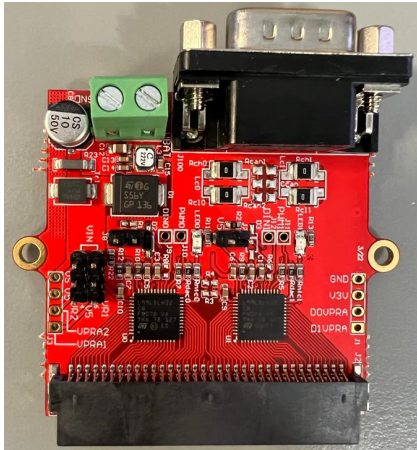


L99LDLH32 evaluation board



Features

| Channel | V _{CC} | I _{OUT} |
|---------|-----------------|------------------|
| 0-63 | 5.5 to 40 V | 1 to 15 mA |

- General
 - Application board with two L99LDLH32
 - Designated to drive generic OLED panel
 - CAN FD light compatible serial interface, protocol handler, draft specification proposal (DSP) available from CAN in automation (CiA)
 - High precision oscillator integrated, no external quartz required
 - QFN48L 7x7 with exposed pad
 - Time out watchdog with limp-home
 - Low standby current
 - Stand-alone/fail-safe and bus mode operation
 - Direct drive (one direct input), for one function group supporting ASIL requirements
 - Widest configurability by embedded non-volatile and volatile memories
 - Operating supply voltage range from 5.5 V to 40 V
 - Operating temperature range from -40 °C to 150 °C
- Linear regulators section
 - 32 constant current output channels, high-side configuration
 - Output current from 1 mA to 15 mA, parallelizable outputs
 - Output voltage up to 35 V
 - Feedback voltage to external pre-regulator, to optimize the regulation voltage minimizing overall power dissipation
 - Current setting per channel by 8-bit DAC
 - Analog dimming, 8-bit PWM channel individual exponential brightness control and 8-bit global PWM dimming
 - Programmable PWM frequency
 - Slow turn on/off time, gradual outputs delay and dithered clock, for better EMC performances
- Protection and diagnostic
 - Integrated 8-bit ADC, for full and flexible diagnostic
 - One dedicated line for fault bus
 - Temperature warning (one threshold)
 - Overtemperature shutdown
 - Short circuit and open load detection and protection
 - Automatic LED current derating, through external NTC measurement and device junction temperature (T_J)

Product status link

[EV-L99LDLH32GEN](#)

Product summary

| Order code | EV-L99LDLH32GEN |
|------------|-----------------|
|------------|-----------------|

Applications

- Automotive exterior OLED rear lighting applications

Description

The EV-L99LDLH32GEN board provides an easy way to connect L99LDLH32 into existing system.

Revision history

Table 1. Document revision history

| Date | Revision | Changes |
|-------------|----------|------------------|
| 09-Aug-2022 | 1 | Initial release. |

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