

BASIC IO-LINK TRANSCEIVER

E981.10

Features

- ▶ Supply voltage range 8V to 36V
- ▶ Integrated 5V voltage regulator
- ▶ Wake-up detection
- ▶ Driver capability up to 200mA
- ▶ C/Q reverse polarity protection
- ▶ 3.3V / 5V compatible digital interface
- ▶ Baud rate selection up to 230.4kBaund
- ▶ Load current monitor and over current protection
- ▶ Over temperature protection
- ▶ Junction temperature up to +150°C
- ▶ QFN20L4 package

General Description

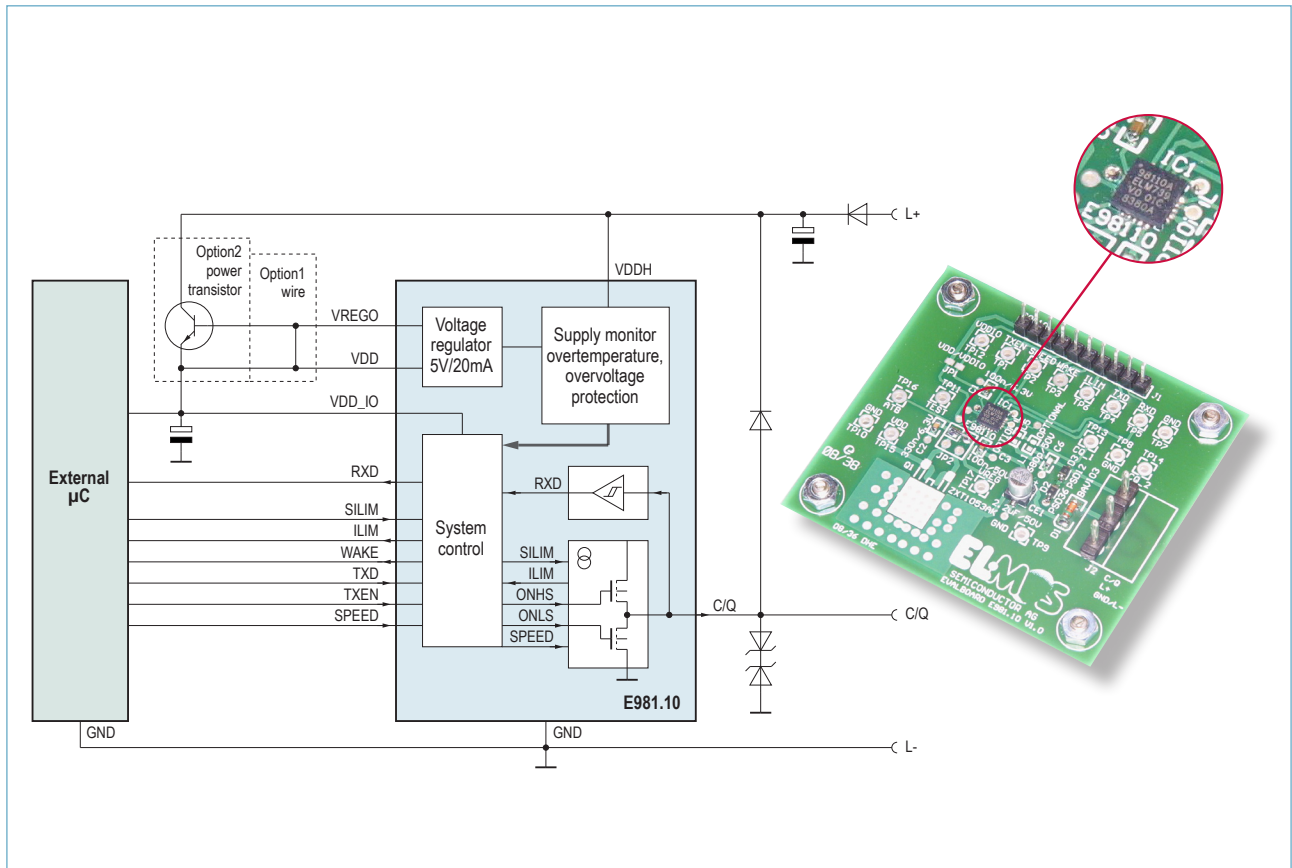
The IC is intended to be used as transceiver in IO-Link and SIO-mode applications in sensors and actuator devices. The communication and the power supply work across 3 separate lines to the IO-Link Master. The integrated voltage regulator is able to provide 5V for external purposes.

The E981.10 is the first member of the IO-Link family of ELMOS. The IO-Link transceiver^{plus} - one of the next ELMOS devices on the road map - is an intelligent transceiver with a frame handler powered by NEC Electronics.

Applications

IO-Link is a point-to-point interface between existing field busses and sensor/actuator devices. IO-Link serves the transmission of specific parameters or data, like diagnosis information.

In addition, other application specific concepts based on ELMOS mixed signal expertise and NEC Electronics know how can be developed and provided on request.



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