3.1 Technical Specifications

Application Manual

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3.1 Technical Specifications

Transceiver

- Dual IO-Link Master Transceiver Analog Devices MAX14816 with Integrated Framers and L+ Supply Controllers
- SPI-Mode only (RX/TX not used)

Mechanical

Dimensions

- 65,5 × 66 mm
- Height: 18 mm with stack-through

Mounting

- 4×2,5 mm Screwholes (Compatible with Raspberry Pi mounting holes)

Temperature range

- -25 °- 60 °C
- Non-condensing humidity

Connections

Voltage supply

- 24V DC (+/-20 %), Current consumption max. 1800mA
- 3V3 DC (+/-5%) from Raspberry Pi < 50mA, over 40-Pin GPIO or generic interface (for IO-Link-Driver-IC logic and LEDs)

Voltage provision

- 5V DC (4,8V…5,2V, depending on the load) to Raspberry Pi over 40-pin GPIO, 1800mA constant current.

2 IOL-Ports

- Screw plug-in terminal 3,5mm
- Class A (max. 500mA per port)
- Speeds COM1, COM2, COM3 (auto-detect via software)
- Operating mode: IOL, DI/DO
- 1 LED per port (red/green, user controllable)

40 Pin GPIO Connector (stack-through)

- SPI 1 (MISO, MOSI, CLK)
- Port 1/2: SPI_CE0, GPIO24 (interrupt)
- Port 3/4: SPI_CE1, GPIO25 (interrupt)
- IOL enable, GPIO23
- 3V3/GND
- 5V power supply (optional)

LEDs

- Status per port (red/green), controlled via software
- Power good LED (from internal 5V power supply)