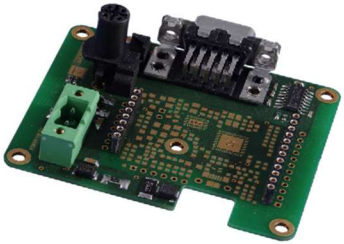
TEConcept

Use IO-Link
Universal · Smart · Easy

1-Port Master Module



Overview

The IO-Link 1-Port Master Module provides easy access to IO-Link devices without PLC.

The IO-Link master module contains an IO-Link compliant transceiver PHY together with a controller running a fully compliant IO-Link master stack.

The IO-Link master module can communicate with external hardware via SPI and/or UART interfaces.

Simple telegrams sent over these interfaces allow control of the master and provide easy access to process data and IO-Link configuration and diagnostic features.

Device configuration can be done offline via an integrated USB connector by a PC running a comfortable and self-explaining IO-Link control tool.

The module can be plugged onto an existing board. For development purposes a reference motherboard is available.

Features

- Fully compliant with V1.1.4 IO-Link interface specification
- IO-Link V1.1.4 compatible stack
- Integrated IO-Link transceiver with protection
- L+ device power switchable
- SPI interface for control and process data
- UART interface for control and process data
- USB interface for PC control
- Dimensions: 43 mm x 33 mm

Motherboard Features

- 24 V power supply connector
- DB-9 serial connector
- Power supply for IO-Link master module
- M12 IO-Link Master connector

Typical Applications

- Seamless integration of IO-Link devices into machine control or similar systems that work without classic PLCs.

Deliverables

- 1-port IO-Link master module
- Motherboard with IO-Link master module plug with SPI and UART interface
- IO-Link control tool for easy configuration of arbitrary IO-Link devices with integrated IODD parser
- Manual

Advantages

- Development effort and cost reduced
- Time to market shortened