IO-Link 8-Port PoE-Master with LTC2874

Overview

Current sensors and actuators are equipped with small but powerful microprocessors that introduce advanced features like parameterization and diagnostics to these devices. However, those features are currently not visible to standardized project planning tools.

IO-Link™, the new bi-directional, digital, point-to-point communication standard (IEC 61131-9) now offers a standardized mapping of advanced sensor and actuator features into the automation tool environment.

TEConcept has developed an 8-Port IO-Link master with an Ethernet mapping that is completely powered by the latest Power-Over-Ethernet "PoE" technology. Thus, no additional cabling for power supply is required.

The 8-Port master uses two LTC2874 and is controlled via Ethernet by a software tool (including IODD Interpreter). A special Dynamic Link Library (DLL) allows connection to proprietary software tools.

Deliverables

- IO-Link 8-Port master
- Configuration Tool (Windows PC)
- Extension-DLL

Specifications

- Complies to IO-Link Specification V1.1
- 2 new LTC2874 master PHYs supporting 8 IO-Link ports
- Hot Swap™ controller protected supply outputs
- ±50V line protection
- Automatic cable sensing
- 90W LTPoE++™ with Isolated Flyback and Synchronous Rectifier
- Alternate 24V supply input
- LPC43xx dual core ARM processor
- Ethernet control
- USB control
- microSD card slot
- DIN rail mount
- TEConcept IO-Link Master Stack

Additional Services

- Software/Hardware design support
- Conformance tests (Master tester)

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