

# Cost-Effective IO-Link® Master Module Reference Design



## Description

This reference design accelerates the development of IO-Link controller gateways by implementing an 8-port IO-Link gateway that supports up to 400µs cycle time, COM3, 1A per port on L+, and an additional DI/DO. The design supports various Ethernet-based industrial protocols such as EtherCAT®, PROFINET®, EtherNet/IP, and Modbus® Transmission Control Protocol (TCP) using the AM261x integrated industrial communication subsystem (ICSS). The hardware design is tested and developed to meet industry-standard EMI/EMC requirements.

## Features

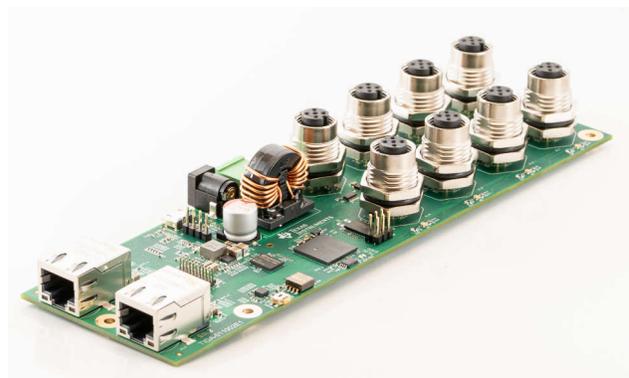
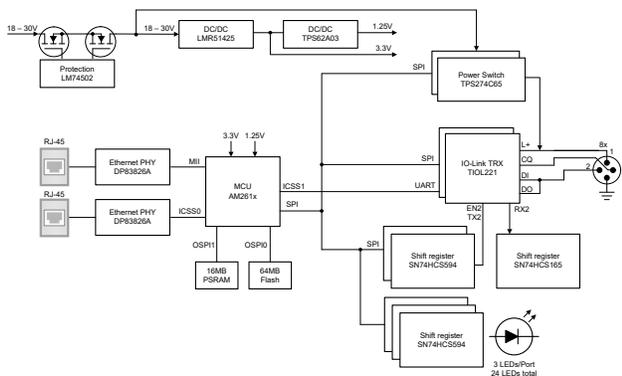
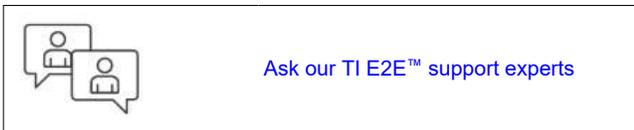
- 8 Port IO-Link controller supporting 1A per port, COM3, 400µs
- 10/100Mbit Multiprotocol Industrial Ethernet
- EtherCAT, Profinet, Ethernet/IP, MQTT, Modbus support
- EMI/EMC tested design

## Applications

- [Communication module](#)
- [Stand-alone remote IO](#)

## Resources

<a href="#">TIDA-011002</a>	Design Folder
<a href="#">AM2612, DP83826AI, TIOL221</a>	Product Folder
<a href="#">TPS274C65, LMR51425, TPS62A03</a>	Product Folder
<a href="#">LM74502, SN74HCS594, TSM36CA</a>	Product Folder



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