



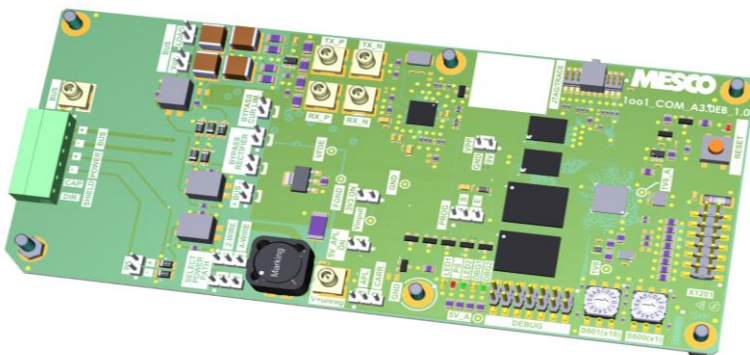
Ethernet-APL Development Services

Overview

The launch of Ethernet-APL (Advanced Physical Layer acc. to IEEE 802.3cg) opens up new possibilities for the process industry.

The process devices can communicate robustly with high data rates on existing 2-wire lines, even in explosion-proof areas. They are supplied with voltage via the communication line using PoDL (Power over Dateline). They are fully integrated into the Ethernet topology of the overall system.

Ethernet-APL thus enables the consistent use of established Ethernet protocols (non-safe and safe) from the sensor to the controller. This has considerable advantages in terms of device installation, configuration and maintenance. In addition, safety protocols such as PROFINET / PROFI-safe or EtherCAT / FSoE can be used for safety-related tasks in the field devices.



MESCO Evaluation Board APL Design Package

Our competencies

We are experts in device development in the field of process automation. We realize electronics projects for measurement technology, safety control technology, actuators / sensors and remote I / O.

Safety requirements with regard to explosion protection (IECEx) and functional safety (IEC61508, SIL) are also taken into account.

Our specialists develop your product from concept to certification (approvals e.g. from TÜV / DEKRA / EXAM).

Our services include the conception, hardware and software development, prototyping and support with the certification of your product.



Your benefit

- MESCO Design Packages for easy implementation of the Ethernet-APL interfaces
- Proof-of-concept with use of MESCO APL evaluation boards
- Simple integration of multi-protocol solutions on common Ethernet-APL hardware
- MESCO design know-how in the field of measurement technology, Ethernet communication, functional safety and explosion protection

MESCO Services for Ethernet-APL

- Technology consulting and preparation of specifications
- Proven hardware and software design for Ethernet-APL interfaces with PROFINET, EtherCAT communication
- Development of low-power interfaces, PoDL power supplies and explosion protection concepts
- Multiprotocol Ethernet solutions
- Support for protocol compliance testing
- Implementation of safety protocols such as PROFI-safe and FSoE, IEC 61784
- Support with safety certification by TÜV or IFA

Further MESCO Services

- Concept
- Hardware and software development
- Prototyping
- Support in the certification