



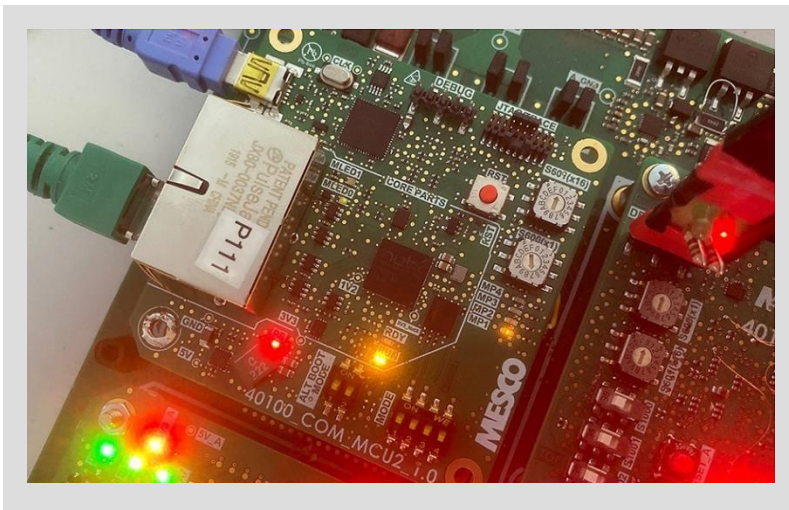
EtherCAT / Safety-over-EtherCAT – Development services

Overview

EtherCAT is the efficient Ethernet communication technology for high-performing real-time communication functions as well as for high synchronisation accuracy of the factory automation.

For realising a safe data transmission for EtherCAT, the protocol Safety-over-EtherCAT (FSoE) has been defined.

Safety-over-EtherCAT complies with the SIL3 of the IEC61508 and allows the transmission of safe and unsafe information in a communication system. It does not cause any limitations regarding the transmission rate and the cycle time.



MESCO Evaluation Board EtherCAT/FSoE with netX90 (Hilscher)

Our competences

We are experts for EtherCAT and Safety-over-EtherCAT hardware and software developments. Thanks to our memberships in the EtherCAT Technology Group, our long-term experience in the electronics development of industrial products and our specialists in the fields of functional safety we will develop your product from the draft to the declaration of conformity or the TÜV certification.

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



The highlights

- MESCO Design Packages for the simple implementation of EtherCAT and/or FSoE functionality in your product
- Proof-of-concept by using the MESCO EtherCAT / FSoE Eval Boards
- Support of the hardware platform netX90 (Hilscher)
- Simple integration of multiprotocol solutions on a common hardware
- MESCO Design knowledge in the field of Ethernet communication, functional safety and motion control

MESCO services

- Technology consulting and preparation of the specifications
- Proven hardware and software design for industrial Ethernet interfaces with EtherCAT and FSoE communication
- Multiprotocol Ethernet hardware solutions
- Support for conformity check and TÜV certification

Further services for functional safety

- Customised hardware and software development compliant with standards according to IEC 61508(SIL3), EN ISO 13849 (PL e)
- Integration Safety Communication (FSoE)
- Support for the safety certification by the TÜV or IFA

Your advantages

- Proof-of-concept by using the MESCO Eval Boards
- Reduced development risk by MESCO Design Package solutions
- Cost reduction of your project
- Shorter Time-to-Market