



STACK FSoE
Safety over
EtherCAT

ISIT's Safety over EtherCAT protocol stack enables the addition of a safety communication layer to your EtherCAT applications, fully compliant with the IEC 61784-3-12 standard. It meets the requirements of systems that incorporate functional safety at the communication level.

Based on the black channel principle, this stack is designed for easy and flexible integration into any hardware and software architecture. It fits seamlessly into the safety architecture of your device, regardless of the technical environment.

DESCRIPTION

Features and Benefits:

- Integration of safety communication over the EtherCAT network
- Pre-certified to IEC 61508 up to SIL 3, depending on the version
- Certifiable according to other standards (IEC 62304, DO-178, etc.)
- Available in Master or Slave versions
- Generic and easy-to-use programming interface
- Compatible with most EtherCAT Master and Slave protocol stacks
- Modular and customizable to fit specific needs

Functionality Overview:

- Management of dual FSoE instances in compliance with the standard
- Timing control (Cycle Time / Watchdog)
- Data integrity control (CRC / Sequence Number)

Delivered Content (depending on version):

- FSoE stack in source code version
- User documentation
- Certified version
- Pre-certification kit including the Safety Manual and official SIL3 certificate for pre-certified versions
- Certification kit (special version) including the Safety Manual and test plans for user-certified versions
- Usage examples on standard Beckhoff Safety equipment
- One year of support included

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technologies



QNX

Additional Services:

- Operating System and hardware architecture porting
- Hardware/software integration
- Full application development
- Training sessions on EtherCAT / FSoE / Functional Safety (IEC 61508, IEC 62304, DO-178C, etc.)