FSoE protocol Stack (Safety over EtherCAT)

ISIT's Safety over EtherCAT protocol stack allows you to add Safety communication to your EtherCAT applications in compliance with the IEC 61784-3-12 standard to meet the requirements of applications and systems integrating functional safety at communication level.

Designed to fit into any hardware/software architecture and based on the *black channel* approach of this safety protocol, the stack will easily integrate into your device's safety architecture.

DESCRIPTION

Features and Benefits :

- Integration of Safety communication on EtherCAT network
- Pre-certified IEC 61508 up to SIL 3 level according to version
- Certifiable to other standards (IEC 62304, DO178, etc.)
- Master or Slave version available,
- Generic and easy-to-use programming interface,
- Adaptable to most EtherCAT Master and Slave protocol stacks,
- Modular according to need

Functionalities overview :

- Management of the two FSoE instances in accordance with the standard
- Timing Control (Cycle Time/Watchdog)
- Data control (CRC/Sequence number)

Typical delivery (according to version) :

- FSoE stack in source version
- User's manual
- Certification version
  - Kit including Safety Manual and Official SIL3 Certificate for pre-certified versions
  - Certification Pack (special version) including the Safety Manual and test plans for user-certified versions
- Examples of use on standard Safety Beckhoff equipment
- Support included for the first year

CONTACT US

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Additional services :

- Operating System and Hardware porting
- Hardware/software integration
- Development of complete applications
- EtherCAT / FSoE and Functional safety (IEC61508, IEC 62304, DO178,...) trainings