

ISIT\_FSoE

# ISIT FSoE protocol Stack Safety over EtherCAT

**STACK FSoE****Safety over  
EtherCAT®**

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

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**Features and Benefits:**

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

**Functions overview:**

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

**Example of the delivery content :**

- ▶ FSoE stack in source version
- ▶ User4s manual
- ▶ Examples of use on standard Safety Beckhoff equipment
- ▶ Support included for the first year
- ▶ Certification Kit including Safety Manual and certificate for pre-certified versions
- ▶ Certification Pack including the Safety Manual (special version) and test plans for user-certified versions

**Additional services:**

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