

ISIT\_COSAFE\_LC

# ISIT CANopen Safety Certifiable protocol Stack SIL 2/SIL 3



The **ISIT CANopen Safety Certifiable Stack** (ISIT\_COSAFE\_LC) meets the needs of certified applications and allows developers to use the advantages of the CANopen protocol while benefiting from the necessary elements for the certification of the product with an approved organization : documentary set, test reports, certificate... Delivered as source C code, ISIT\_COSAFE\_LC can also operate without an operating system (Bare metal).



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**www.isit.fr**

## ISIT CANopen Safety Certifiable protocol Stack - Features and Benefits:

- ▶ Pre-certified "COTS" software usable for IEC61508 up to SIL3 / ISO13849 PLd
- ▶ Compliant with CANopen Protocol CiA-301 (EN50325-4) and the safety extension CiA-304 (EN50325-5)
- ▶ Master/Slave version
- ▶ Certification Pack Available
- ▶ OS and CPU independent architecture (certified on a specific one)
- ▶ Delivery of protocol stack as source code

## ISIT CANopen Safety Certifiable protocol Stack - Functions overview:

- ▶ SDO expedited, segmented and block modes
- ▶ PDO synchronous/asynchronous modes
- ▶ PDO static/dynamic mapping
- ▶ NMT Error control : Heartbeat consumer/producer
- ▶ EMCY producer (Consumer in Master version only)
- ▶ NMT commands (Master version only)
- ▶ Any slave profile can be created by providing EDS file
- ▶ SRDO producer / consumer – Static Mapping
- ▶ EDS Editor provided

## ISIT CANopen Safety Certifiable protocol Stack - Content of the delivery:

- ▶ CANopen Safety stack : Software provided as source code for the stack and the driver
- ▶ Usage and certification documentation:
  - User & Safety manuals
  - Certificate
- ▶ Test reports (unit, integration, validation)
- ▶ Sample application programs for the protocol stack implementation
- ▶ Support and maintenance included for the first year

## ISIT CANopen Safety Certifiable protocol Stack - Additional services:

- ▶ Trainings on CAN/CANopen
- ▶ Operating System and CPU porting
- ▶ Integration with customer hardware/application
- ▶ Application development