



The **ISIT CANopen Safety Certifiable Stack** (ISIT_COSAFE_LC) meets the needs of building Safety devices using CANopen protocol (CiA-301 / EN 50325-4) and his Safety communication extension (CiA-304 / EN50325-5)

It allows developers to use the advantages of the CANopen/Safety 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).

DESCRIPTION

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
- Delivery of protocol stack as C source code or pre-compiled binary
- Available in non-safety version

Functionnalities 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)
- SRDO producer / consumer – Static Mapping
- Any Master/Slave profile can be created by providing EDS file
- EDS Editor provided

Additional services :

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

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



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