

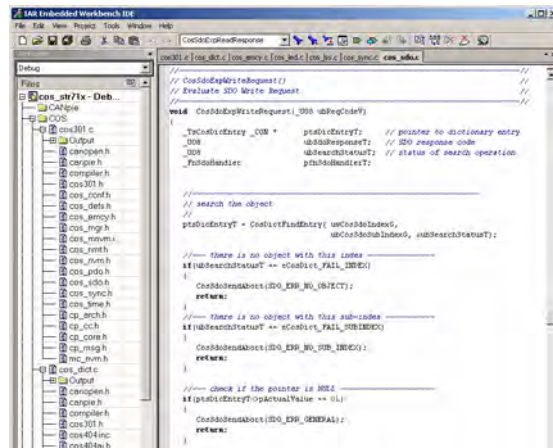


Source Code

CANopen slave protocol stack

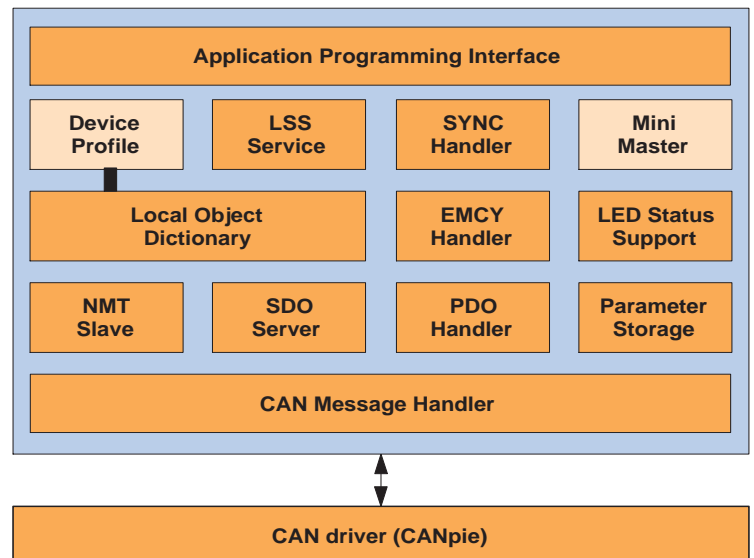
Software package for development of CANopen slave devices

The CANopen slave source code package offers the complete functionality for integration of the CANopen standard CiA 301 in your own devices. Versatile configuration options allow an individual customisation to the target system. Example code eases the startup phase, the user can concentrate on the implementation of his own application. A consistent driver interface gives the flexibility to use any CAN controller available on the market.



Features

- Complete functionality according to CANopen specification CiA 301
- Modular software structure with versatile configuration options
- Optimised for low resource requirements (ROM / RAM)
- Broad range of supported CAN controllers
- Consistent interface for the CAN driver (CANpie)
- Simple customisation to application (vendor specific parameters)
- Miscellaneous add-ons available (device profiles / mini-master)



Technical Data	CANopen slave protocol stack
Communication profile	<ul style="list-style-type: none"> • CiA 301, version 4.1 • device profiles as optional add-on available •
NMT slave	<ul style="list-style-type: none"> • Boot-up message • Heartbeat producer / consumer • Node-Guarding
SDO server	<ul style="list-style-type: none"> • Expedited upload / download • Segmented upload / download • Block upload / download
PDO handler	<ul style="list-style-type: none"> • Pre-defined connection set for 4 transmit / receive PDOs • Support for standard / extended frames • Static / variable PDO mapping
CANopen services	<ul style="list-style-type: none"> • Emergency message upon error conditions (EMCY handler) • Synchronisation message (SYNC consumer / producer) • Layer Setting Services (CiA 305, LSS)
Special functions	<ul style="list-style-type: none"> • LED status information • Parameter store / restore
Options	<ul style="list-style-type: none"> • Mini master (NMT CiA 401, CiA 402, CiA 404, CiA 406, CiA 418, CiA 419, etc.)
CAN driver	CANpie, available for a wide range of CAN controllers (refer to separate datasheet)

Order Number	Description
50.01.005	CANopen slave protocol stack Protocol stack as C source code on CD-ROM, example programs, documentation in English language
50.09.001	CANopen device profile CiA 401 Device profile for digital and analogue I/O modules
50.09.002	CANopen device profile CiA 402 Device profile for drives
50.09.004	CANopen device profile CiA 404 Device profile for measurement and closed-loop control
50.09.006	CANopen device profile CiA 406 Device profile for encoder
50.10.xxx	CANpie driver (refer to separate data sheet)