CANopenIA Coprocessor

Devices, modules and chips that provide a host microcontroller system with instant access to CANopen using a simple serial interface.

CANopenIA is a concept developed by ESAcademy that helps you to easily build CANopen devices. Access, test or control the devices/nodes connected to a CANopen network. Build sensors, actuators or other devices with a CANopen interface. The main benefits of CANopenIA are:

Decreased complexity level
- Simple setup through CANopen Architect or dedicated setup software
- Only minimal CANopen knowledge required
- Simplified software development

Increased security level
- Fewer attack points for intruders
- In coprocessor mode, CANopenIA acts as a firewall between CANopen and host

Faster time-to-market
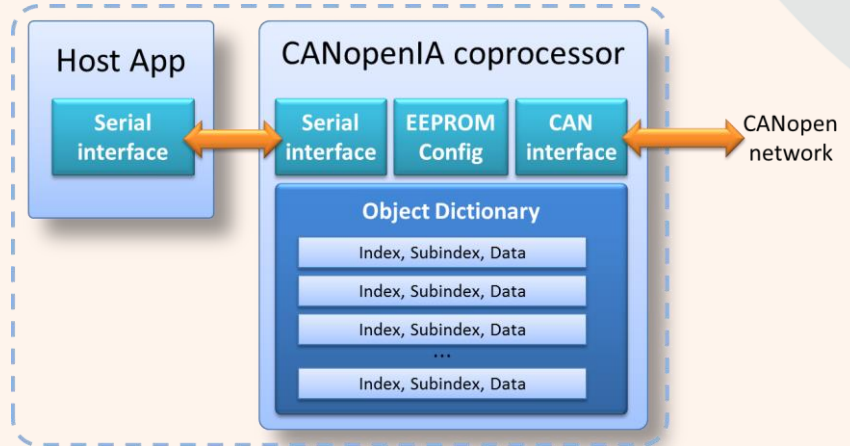- Minimized software development
- Faster test cycles

Available Devices
- CANgineLight (CANopen – RS232)
- PCAN-RS232 (CANopen – RS232)
- CANgineII-BT (CANopen – Bluetooth)

Supported Chips
NXP: LPC11C24
ST: STM32F042
STM32F091

Use ESAcademy's CANopen Architect software to start a new configuration or import an existing one, for example an EDS (Electronic Data Sheet) or CODB (CANopen data base) file. Once the desired configuration is finished, save it as EDS or binary EDS. Then, transfer the binary EDS configuration to a CANopenIA implementation using any CANopen configuration software such as CANopen Magic.
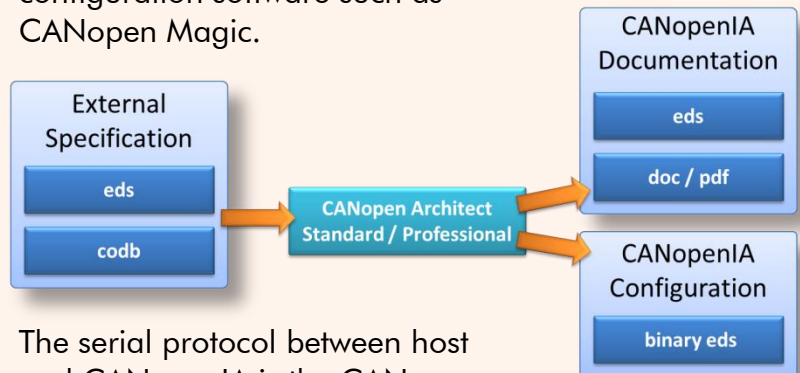
The serial protocol between host and CANopenIA is the CANopen remote access protocol by ESAcademy. It supports reporting events (new data arrived on CANopen side) as well as reading and writing data of the local Object Dictionary.

CANopen Manager or CiA 447 implementations also support read and write accesses to Object Dictionary entries of any node connected to the CANopen network. For more information visit our dedicated web page at **www.canopenia.com**