

**PCAN-MicroMod FD firmware options for generic CANopen FD I/O or serial instant access to CANopen FD for a host microcontroller.**

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

### Interfaces supported

- One CANopen FD and one UART
- Up to 8 digital inputs and 8 digital outputs
- Up to 8 analog inputs (12 bit)
- Additional IO on request

### Decreased complexity level

- Simple setup through CANopen Architect
- Only minimal CANopen knowledge required
- Simplified software development

### Increased security level

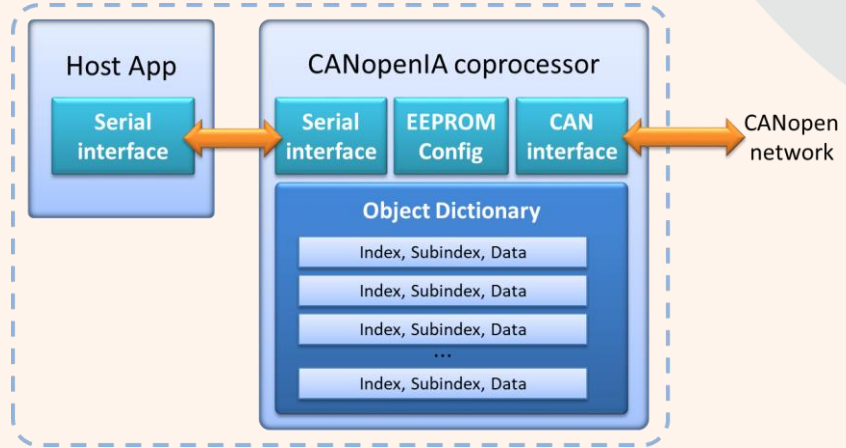
- Fewer attack points for intruders
- In coprocessor mode, CANopenIA acts as a firewall between CANopen and host

### Faster time-to-market

- Minimized software development
- Faster test cycles



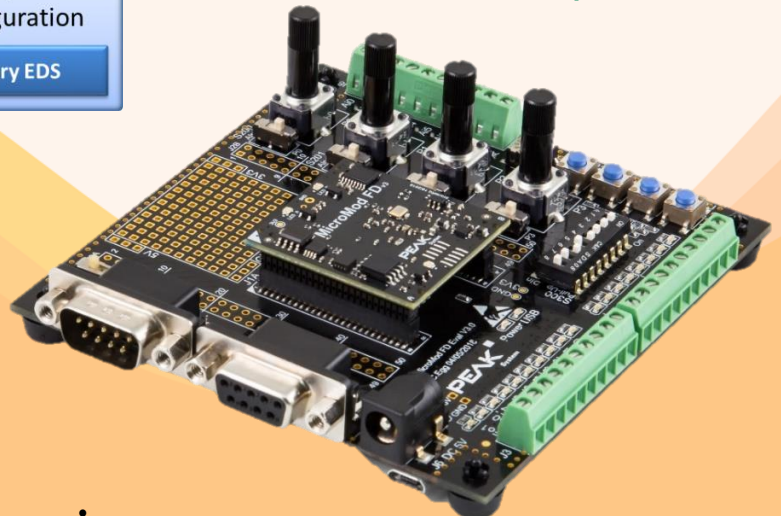
Use the CANopen Architect software to start a new configuration or import an existing one, for example an EDS (Electronic Data Sheet) or CODB (CANopen data base) file. Once the desired configuration is finished, it can be exported and loaded into CANopenIA devices.



The serial protocol between host and CANopenIA is the CANopen (FD) remote access protocol by EmSA. 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.

**CANopen<sup>FD</sup>**



Order code

ES-FWIA-MM: Firmware PCAN-MicroMod FD