CANopenIA is a concept developed by ES Academy that helps you to easily build CANopen devices. Quickly develop devices or nodes connected to a CANopen network. Build sensors, actuators or other devices with access to CANopen systems. The main benefits of CANopenIA are:

**Decreased complexity level**
- Simple setup through CANopen Architect or dedicated setup software
- Only minimal CANopen knowledge required
- No software development

**Increased security level**
- Fewer attack points for intruders

**Faster time-to-market**
- No software development
- Faster test cycles

Configurations can be generated and loaded using the provided CANopenIA-M0 setup utility. The chip’s configuration gets stored in an EEPROM. Configurable parameters include:
- Port configurations for a total of 28 signals
  - 4 signals per port
  - any port can be digital input or output
  - one port can be analog output (10bit ADC)
  - one port can be SPI analog input (12bit ADC)
  - one port can be SPI analog output (12bit DAC)
- Port to Object Dictionary assignment
  - which signal is where in Object Dictionary
- CANopen PDO (Process Data Object) configuration
  - communication and mapping parameters

The CANopen standards implemented by CANopenIA-M0 include
- CiA301 version 4.2 CANopen Application layer and communication profile
- CiA305 version 2.2.14 LSS, node ID assignment using Layer Setting Services and protocols
- CiA401 version 3.0 Device Profile for generic I/O modules

For more information visit our dedicated web page at www.canopenia.com