Ixxat CM CANopen

Item number: 021620-B

The Ixxat CM CANopen is a compact interface module designed for the integration of CANopen or CAN 2.0A devices with SIMATIC S7-1200 automation systems. It offers a cost-efficient solution to achieve PROFINET connectivity for CANopen-based field devices, offering full integration into the Siemens TIA Portal and configuration tool support.



Plug-in CANopen module for SIMATIC® S7-1200 systems

Features and benefits

- **CANopen connectivity for SIMATIC S7-1200 systems**

  As a CANopen commander/responder (master/slave) module, it connects any CANopen or CAN 2.0A field device to a SIMATIC S7-1200 PLC, acting as a bridge between the devices.

- **Simplified configuration**

  User-friendly configuration thanks to integration into the hardware catalogue of the TIA Portal configuration environment.

- **Flexible mode operation**

  Can be easily configured as either a commander (master) or responder (slave) module, providing flexibility with no additional programming required.

- **Overvoltage protection**

  Galvanic isolation safeguards against overvoltage and protects from potential electrical damage.

- **Cost-effective system expansion**

  Supports up to three CM CANopen modules per PLC and up to 16 CANopen responder (slave) devices in commander (master) mode, enabling scalable system expansion without significant cost increase.

- **Support for transparent CAN 2.0A protocols**

  Supports transparent CAN 2.0A for custom protocol implementation. Ready-made PLC function blocks are available in the TIA portal for fast integration.

- **Diagnostic clarity**

  Integrated LEDs provide comprehensive diagnostic information on module network and I/O status for easy troubleshooting.

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General

Net Width (mm)	30
Net Height (mm)	100
Net Depth (mm)	72
Net Weight (g)	217
Packed Width (mm)	14
Packed Height (mm)	7
Packed Depth (mm)	18
Packed Weight (g)	321
Operating Temperature °C Min	0
Operating Temperature °C Max	60
Storage Temperature °C Min	-40
Storage Temperature °C Max	70
Relative Humidity	5 to 95 %, non-condensing
Current Consumption Max value at Vcc nom (mA)	200 mA (5 V DC)
Input Voltage (V)	5 V DC +/-10%
Isolation	Galvanic isolation on sub-network interface
Configuration	The Ixxat CM CANopen module is integrated into the TIA Portal. The CANopen network is configured easily via USB connection thorugh the CM CANopen Configuration Studio tool, with software and TIA files available for free download. Configurations are uploaded to the module via USB and stored in its non-volatile memory.
Content of Delivery	CM CANopen module, user manual, USB configuration cable, CM CANopen Configuration Studio CD, available as download: function blocks, configuration files
Mounting	DIN rail mount (bracket included)

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General

Housing Materials	Plastic
Packaging Material	Cardboard
Warranty (years)	3

Identification and Status

Product ID	021620-B
Country of Origin	Sweden
HS Code	8517620000
Dual Usage	No
Export Control Classification Number (ECCN) (Applies only to the U.S)	EAR99

Physical Features

Connectors / Input / Output	1 x Mini USB port, 1 x D-Sub 9 connector
Contains Battery	No

CAN Features

CAN Mode	Transparent CAN 2.0A mode
CAN Baud Rate	20 kBit/s to 1 Mbit/s

CANopen Features

CANopen Supported Functionality	Connects max. 3 CM CANopen modules per CPU and max. 16 CANopen responder nodes per module in commander mode
CANopen Input Data Size	256 byte input per module
CANopen Output Data Size	256 byte output per module

Certifications and Standards

Protection Class IP	IP20
CE	Yes
WEEE Category	IT and telecommunications equipment