Ixxat 1 SI CANopen

Item number: 020570-B

The Ixxat 1 SI CANopen is a compact module for SIMATIC ET200S modular I/O systems, offering an easy and cost-effective way to connect CANopen devices. It enables seamless integration and control of CAN/CANopen networks via PROFIBUS or PROFINET, without extra gateways, facilitating the expansion of automation systems and increasing their efficiency.



Plug-in CANopen module for SIMATIC® ET200S systems

Features and benefits

CANopen connectivity for the SIMATIC ET200S system

The Ixxat 1 SI CANopen seamlessly integrates CANopen devices with SIMATIC ET200S systems, enabling smooth interaction between PROFIBUS or PROFINET controllers and CAN/CANopen fieldbus devices.

Real-time communication

The isochronous operation mode supports efficient real-time communication, which is essential for time-sensitive applications.

Simplified configuration

Uncomplicated configuration thanks to integration into the hardware catalogue of the SIMATIC STEP 7 or TIA Portal configuration environment.

Wide-ranging module support

The ixxat 1 SI CANopen module is supported by all interface and CPU modules of the SIMATIC ET200S modular I/O sytem, with the exception of the Basic and Compact versions.

Cost-effective system expansion

With the possibility to connect up to 126 CANopen responder nodes in commander mode, the module offers scalable system expansion without significant cost increase.

Hot-swapping capability

The Ixxat 1 SI CANopen module can be smoothly replaced during operation without system shutdown, minimizing downtimes.

Support for transparent CAN 2.0A protocols

Supports transparent CAN 2.0A for custom protocol implementation and enhancing PLC programming efficiency with ready-made function blocks available in the SIMATIC STEP 7 portal.

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General

Net Width (mm)	15
Net Height (mm)	81
Net Depth (mm)	52
Net Weight (g)	33
Packed Width (mm)	14
Packed Height (mm)	6
Packed Depth (mm)	18
Packed Weight (g)	118
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 Type Value at Vcc Nom (mA)	33 mA (24 V DC)
Input Voltage (V)	24 V DC +20/-15%
Isolation	Galvanic isolation on sub-network interface
Configuration	The Ixxat 1 SI CANopen module is integrated into the SIMATIC STEP 7 or TIA Portal and offers easy network configuration thorugh the Anybus Configuration Manager - CANopen tool. The configuration can be uploaded and stored in the PROFIBUS or PROFINET PLC or the ET200S I/O system CPU, with the option to hot-swap 1 SI CANopen modules while the ET200S is powered.
Content of Delivery	1 SI CANopen module, user manual, available as download: Anybus Configuration Manager - CANopen, function blocks, configuration files
Mounting	DIN rail mount (bracket included)

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General

Housing Materials	Plastic
Packaging Material	Cardboard

Identification and Status

Product ID	020570-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	plug-in module
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. 126 CANopen responder nodes per module in commander mode

Certifications and Standards

Protection Class IP	IP20
Product Certifications	CE, cUL
WEEE Category	IT and telecommunications equipment