



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 system, 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.



| 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 through 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) |



General

| | |
|---------------------------|-----------|
| Housing Materials | Plastic |
| Packaging Material | Cardboard |

Identification and Status

| | |
|--|-------------------|
| Product ID | 020570-B |
| Country of Origin | Sweden |
| HS Code | 8517620000 |
| Export Control Classification Number (ECCN) | EAR99 |
| Supply Risk Factor ERP | Used in Volume 01 |

Physical Features

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| Connectors / Input / Output | plug-in module |
|------------------------------------|----------------|

CAN Features

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

CANopen Features

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|--|--|
| CANopen Supported Functionality | Connects max. 126 CANopen responder nodes per module in commander mode |
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Certifications and Standards

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|----------------------------|-------------------------------------|
| Protection Class IP | IP20 |
| ETIM Classification | EC001604 |
| WEEE Category | IT and telecommunications equipment |