# Ixxat

**BY HMS NETWORKS**

# 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) |

# Ixxat CM CANopen

## General

| | |
|---|---|
| **Housing Materials** | Plastic |
| **Packaging Material** | Cardboard |
| **Warranty (years)** | 3 |

## Identification and Status

| | |
|---|---|
| **Product ID** | 021620-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** | 1 x Mini USB port, 1 x D-Sub 9 connector |

## 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

| | |
|---|---|
| **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

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