

# 1 SI CANopen Module

Plug-in CANopen Master/Slave module for the SIMATIC ET200S Distributed I/O system

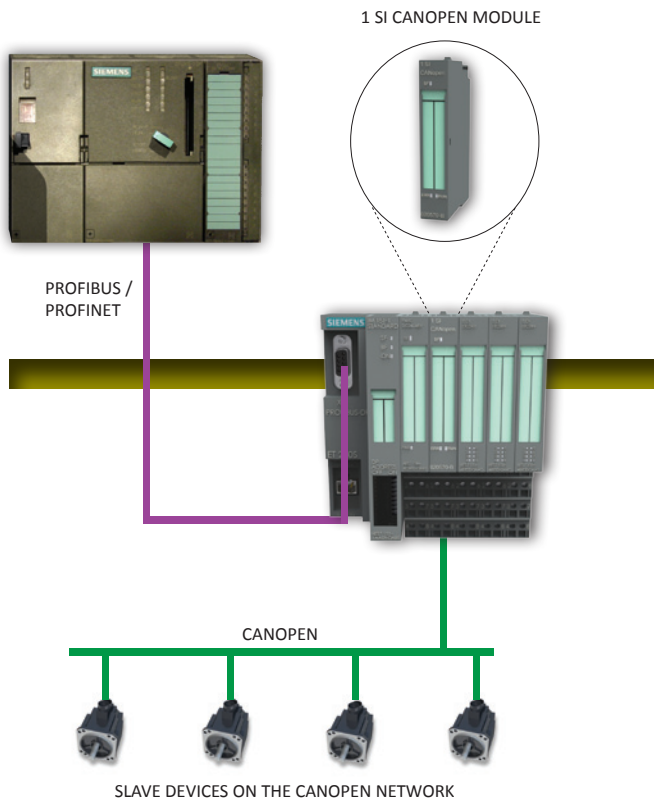


The 1 SI CANopen module brings CANopen connectivity to the SIMATIC ET200S Distributed I/O System, allowing full integration between devices on CANopen and ET200S. Furthermore, the addition of 1 SI CANopen module into the ET200S system allows the CANopen network to be seamlessly controlled from PROFIBUS or PROFINET.

## FEATURES

- Plug-in CANopen Master/Slave module for SIMATIC ET200S Distributed I/O
- Connects up to 126 CANopen slave nodes in master mode
- SIMATIC ET200S stand-alone operation supported
- Module “hot swap” supported which allows replacement of expansion modules without removing power
- Isochronous mode supported
- Support for transparent CAN 2.0A for custom protocol handling
- Pre-made function blocks available for easy PLC programming in Step 7
- Integrated within the hardware catalogue of Step7
- CANopen Configuration Manager included

# 1 SI CANopen Module



The 1 SI CANopen module works with all SIMATIC ET200S Distributed I/O systems, with the exception of Basic and Compact.



HMS provides a full 3 year product guarantee from date of shipment



## ORDERING INFORMATION

Part No.	Description
020570-B	1 SI CANopen Master/Slave module for SIMATIC ET200S <b>Included Accessories:</b> CANopen Configuration Manager for CANopen network configuration.
021370-B	<b>Additional Accessories:</b> USB - CAN interface for a PC
021220-B	<b>Additional Accessories: Start-up Kit</b> 1SI CANopen module, CANopen Configuration Manager, USB - CAN interface, 1SI CANopen network cable, CANopen device cable (DSUB) to CANopen network

## CANOPEN FEATURES

- CANopen implementation according to CANopen specification DS301 rev. 4.2 and CANopen Master according to DSP302 (Part 1-5)
- PDO (Process Data Objects) functionality, Push and Pull
- 128 Receive and 128 Transmit PDOs
- SDO Client functionality (Expedite & Segmented Upload/Download Domain Protocol)
- Configuration possibility via SDOs
- Heartbeat producer/consumer functionality
- Selectable baud rate from 20 kbit/s – 1 Mbit/s
- Supported PDO message types: COS (Change Of State), Cyclic Synchronous, Acyclic Synchronous

## MASTER SPECIFIC FEATURES

- SDO (Service Data Objects) Server functionality
- NMT (Network Management Telegrams) Master to be able to start-up and monitor the network
- Node guarding - producer/consumer
- Synchronization - producer/consumer
- LSS master functionality

## SLAVE SPECIFIC FEATURES

- NMT (Network Management Telegrams) Slave state machine
- Node guarding - consumer
- Synchronization - consumer
- LSS slave functionality
- Automatic baud rate detection

## TRANSPARENT CAN 2.0A FEATURES

- Implements any custom CAN based protocol on the slave side, which is controlled by the PLC
- Special PLC function block available for easy integration in to Step 7
- Module functions in a transparent pass-through mode when handling a custom CAN protocol
- Ability to transmit and receive CAN frames in the PLC program
- Supports only the CAN 2.0A standard
- Selectable baud rate from 20 kbit/s – 1 Mbit/s
- CANopen functionality is disabled when using transparent CAN mode

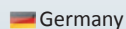
## HARDWARE SPECIFICATIONS

Width	15 mm (0.59")
Weight	40 g (0.09 lb)
Module Voltage	24 VDC + 20% / -15%
Current Consumption	Max 0,8 Watt - 33 mA @ 24 V
Operating Temperature	0 - 60°C (+32°F to +140°F)
Non-Operating Temp.	-40 - 70°C (-40°F to +158°F)
Isolation	250 V AC (According to IEC61131-2)
Protection Class	IP20
3X LED Indicators	Group error (SF), CANopen error (ERR), CANopen state (RUN)
Certification	CE, UL, RoHS

## SALES ENQUIRES



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For more information please visit:

[www.et200can.com](http://www.et200can.com)



The 1 SI CANopen module for the SIMATIC ET200S I/O System is developed, manufactured and maintained by HMS Industrial Networks AB in Sweden, in close co-operation with Siemens AG, Germany.

HMS Industrial Networks is a world leading supplier of industrial network technology. HMS develops and manufactures products used for interfacing automation devices to industrial networks.