PN/CAN Gateway
PROFINET/CANopen

- SDO communication, emergency messages, participant monitoring with heartbeat and node guarding
- Easy configuration using a GSDML file; no handling blocks or configuration software necessary
- Supports the CANopen master protocol
- Up to 127 CANopen slaves possible

On the PROFINET network, the PN/CAN gateway is a PROFINET I/O device and supports transfer rates up to 100 Mbps full duplex; and up to 1 Mbps on the CAN bus. The I/O data of the CAN participants is transparently displayed in a freely configurable manner on the PROFINET network and can thus be processed directly in the PLC. The PN/CAN gateway is integrated with a GSDML file in the hardware configurator and can be fully configured there. No other software tools for configuration or handling blocks for programming are necessary, making gateway use straightforward. The features of the PN/CAN gateway are rounded out by MRP (media redundancy), as well as extensive diagnostic functions and an interface for online diagnostics.

The PN/CAN gateway CANopen represents a full-fledged CANopen master. As the master, it supports gateway network management, SYNC telegrams and node guarding/heartbeat for monitoring the participants and LSS services. Up to 16 PDOs can be configured for each CANopen® slave. It is also possible to configure the CANopen participants using SDO frames and to administer emergency messages.

Technical specifications

General information	
Order number	700-670-PNC01
Article name	PN/CAN gateway, PROFINET/CANopen
Scope of delivery	PN/CAN gateway, Quick Start Guide, CD with GSDML file and manual
Dimensions (DxWxH)	35 x 84 x 76 mm
Weight	Approx. 160 g
PROFINET interface	
Number	1
Protocol	PROFINET IO as defined in IEC 61158-6-10
Physical layer	Ethernet
Transmission rate	100 Mbps
I/O image size	max. 1440 bytes of input / 1440 bytes of output data
Connection	RJ45 socket
Features	Media Redundancy Protocol (MRP), automatic addressing / topology detection (LLDP, DCP)

CAN interface	
Number	1
Type	ISO/DIN 11898-2 CAN High-speed physical layer
Transmission rate	50, 100, 125, 250, 500, 800, 1000 kbps
Protocol	CANopen® master as defined in DSP301 V4.2
Connection	9-pin D-sub male connector
TPDOs	16 per slave
RPDOs	16 per slave
Features	Up to 126 slaves, Heartbeat, Nodeguarding, Sync
USB interface	
Protocol	Full-speed USB 2.0 device
Connection	Mini-USB
Isolation voltage	1.5 kV
Electrical isolation	Yes
Status indicator	3 LEDs, function status 4 LEDs, Ethernet status
Voltage supply	24 V DC, 18–30 V DC
Current draw	Max. 250 mA with 24 V DC
Ambient conditions	
Ambient temperature	0 °C ... +60°C
Transport and storage temperature	-20 °C … +80 °C
Relative air humidity	95 % r H without condensation
Pollution degree	2
Protection rating	IP20
Certifications	CE
CE	
RoHS	Yes
REACH	Yes