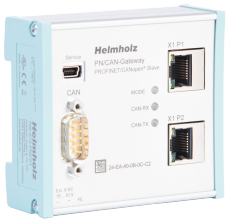

PN/CAN Gateway

PROFINET/CANopen Slave

- CANopen Slave Device according to CANopen protocol DSP 301
- Up to 16 TPDOs / 16 RPDOs
- Up to 1420 bytes input and 1420 bytes output data on PROFINET
- Up to 1 Mbit/s CAN bit rate
- CANopen NMT, Heartbeat, Nodeguarding, Emergency
- PROFINET Conformance Class C
- PROFINET media redundancy (MRP client)
- Configuration via EDS/DCF file and GSDML file
- No handling blocks necessary
- USB device interface for loading the configuration, online diagnosis and firmware update

The PN/CAN gateway "CANopen Slave" enables the coupling of machines with CANopen bus to machines with PROFINET network and represents a freely configurable full CANopen Slave Device at the CAN bus.

On the PROFINET network the PN/CAN gateway "CANopen Slave" is a PROFINET I/O device and supports transfer rates up to 100 Mbit full duplex. The data of the CANopen SDOs are transparently and freely configurably inserted into the PROFINET network and can thus be read or written directly in the PLC. The PN/CAN gateway is integrated into the hardware configurator of the PROFINET controller with a GSDML file, and all values of the CANopen slave are available as IO information. Special handling blocks are not necessary.

An EDS or DCF file is used to permanently load a plant-specific CANopen device configuration into the device.

The features MRP (media redundancy) as well as extensive diagnostic functions and an interface for online diagnostics complete the performance features of the PN/CAN gateway.

The gateway supports CANopen network management, nodeguarding/heartbeat, emergencies and SDO accesses on the CAN bus. Up to 16 RX- and Tx-PDOs can be parameterized. It is also possible to parameterize the CANopen device including PDO mapping via the CAN bus and to send customer specific emergency messages.

Technical specifications

General information	
Order number	700-672-PNC01
Article name	PN/CAN gateway, PROFINET/CANopen Slave
Scope of delivery	PN/CAN gateway
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	1420 bytes of input / 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® as defined in DSP301 V4.2
Connection	9-pin D-sub male connector
TPDOs	16
RPDOs	16
Features	Heartbeat, Nodeguarding, Emergencies
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, UL
UL	
UL	UL 61010-1/ UL 61010-2-201
Voltage supply	24 V DC (18 ... 30 VDC, SELV and limited energy circuit)
Pollution degree	2
Altitude	Up to 2000 m
Temperature cable rating	87 °
CE	
RoHS	Yes
REACH	Yes