



PN/CAN Gateway

PROFINET/CAN Layer 2

- Automatic and controlled receive and transmit objects for CAN frames with configurable identifier
 - Transmission objects can also be transmitted cyclically
 - Receive channel FIFO for receiving CAN frames with flexible identifier
 - Transmission channel FIFO for transmitting any CAN frames with flexible identifier
 - Up to 512 different CAN frames configurable
 - Supports CAN 2.0A (11 bit identifier) and CAN 2.0B (29 bit identifier) according to ISO 11898-2
 - Up to 1 Mbit/s CAN bit rate
 - Simple configuration via GSDML file
 - No PLC handling blocks or parameterization software necessary
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- Media redundancy (MRP client)

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.

With the Layer 2 PN/CAN gateway, CAN devices can be connected using proprietary CAN protocols, including devices with the SAE J1939 protocol, among others.

Technical specifications

General information	
Order number	700-671-PNC01
Article name	PN/CAN gateway, PROFINET/CAN Layer 2
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	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	CAN Layer 2 with 11 bit or 29 bit identifier
Connection	9-pin D-sub male connector
Features	Automatic and controlled reception and transmission objects, reception channel FIFO, transmission channel FIFO
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