Features

- Complete SAE J1939 device
- Broadcast and TP Protocols
- Supports PDU1 format (dynamic DA) and PDU2 format (group extensions)
- Protocol Abort Reasons directly readable in the input area
- Parameterizable priority and EDP
- Parameterizable device name including the arbitrary address enable bit
- Dynamically definable SA/DA
- Automatic response to requests of the parameterized PGNs
- PGN requests for single and multi-reponses (e.g. diagnostics)
- Cyclic transmission and time-controlled reception of Single Package and Multi Package PGNs with parameterizable timing
- Event-triggered sending of PGNs
- Transparent SAE J1939 protocol access
- Up to 1420 bytes input and 1420 bytes output data on PROFINET
- PROFINET media redundancy (MRP client)
- Configuration via GSDML file
- No further configuration software or handling modules necessary
- USB device interface for online diagnosis and firmware update

PROFINET/CAN-Gateway, SAE J1939

With the PN/CAN gateway an easy and uncomplicated connection of CAN devices to a PROFINET network is possible.

The PN/CAN-Gateway SAE J1939 can be used as a complete SAE J1939 device or for the simulation and diagnosis of an SAE J1939 network. The data of the Parameter Groups (PGNs) can be exchanged directly in the I/O data area of the PLC.

The gateway is completely configured with the help of a GSDML via the PROFINET configuration and does not require any additional software. The source address (SA) is freely adjustable. Single and multi-package messages are freely available in direct communication and as requests. In addition, the device can be used as a passive participant for transparent reading of PGN messages of an SAE J1939 network.

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.

General information

Order number	700-671-PNC01
Article name	PN/CAN gateway, CAN Layer 2
Scope of delivery	PN/CAN-Gateway with power plug
Dimensions (DxWxH)	35 x 84 x 76 mm
Weight	Approx. 160 g

PROFINET interface (X1)

Number	1
Connection	2x RJ45, integrated switch
Protocol	PROFINET IO as defined in IEC 61158-6-10
Transmission rate	100 Mbps
I/O image size	max. 1440 bytes of input / 1440 of output data
Features	Media redundancy (MRP),
	automatic addressing,
	topology detection (LLDP, DCP),
	diagnosis alarms
	PROFINET conformance class C

CAN interface

Number	1
Type	ISO/DIN 11898-2 CAN High Speed physical Layer
Connection	SUB-D connector 9 pin, male
Transmission rate	50, 100, 125, 250, 500, 800, 1000 Kbit/s
Protocol	SAE J1939 Device und transparent

USB interface

Protocol	Full-speed USB 2.0 device
Connection	Mini-USB
Electrical isolation	1.5 kV

Status indicator

Function status	3LEDs bi-color
Ethernet status	4 LEDs

Power supply

Operating supply	24 V DC, 18–30 V DC
Current draw	Max. 150 mA with 24 V DC
Power dissipation	4 W

Ambient conditions

Ambient temperature	-20 °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
Approvals	CE

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