

netTAP as PROFINET PROXY

Connects PROFINET IO and PROFIBUS-DP

Product Announcement



netTAP

The PROFIBUS user organisation has specified a PROXY functionality for the integration of PROFIBUS into PROFINET IO. This gateway function is integrated in the netTAP device. With this the netTAP transmits cyclic data, alarms and diagnostic information.

Communication

The cyclic data of the PROFIBUS are mapped to the cyclic data of PROFINET and vice versa. For acyclic communication read/write record services of PROFINET are converted to PROFIBUS DPV1 read/write services. Diagnostic and process alarms of the PROFIBUS-DP slaves are received from the netTAP device and passed as alarm to the PROFINET IO Controller. The confirmation of the alarm from the PROFINET IO Controller is passed back via the netTAP device to the PROFIBUS-DP slave.

Status and Diagnostic

The netTAP device has status and diagnostic LEDs for easy diagnostic. Furthermore an online diagnostic from SYCON.net via USB can be made. The PROFINET IO controller can read diagnostic information from the netTAP device.

Highlights

- Works as PROFIBUS-DP Master and PROFINET IO Device
- Is based on the PROFINET Proxy specification of the PROFIBUS user organisation
- GSDML export of the PROFIBUS configuration
- Easy configuration with SYCON.net via USB
- Low space requirements
- Easy installation



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Configuration

The configuration is done with the configuration and diagnostic software SYCON.net. The PROFIBUS network is configured on base of the known GSD files. The cyclic data of each PROFIBUS-DP slave, which are the modules of a GSD file, are mapped as a slot to PROFINET. The configuration of the PROFIBUS-DP network are mapped by the integrated GSDML composer into a GSDML file. This GSDML file can be exported and has the same data amount of input and output data as the PROFIBUS network. To configure the PROFINET network this GSDML file is used from the configuration tool of the PROFINET IO Controller.

Technical Data

Gateway Function	
Process Data Memory	Max. 2048 bytes input and output data

PROFINET IO RT-Device	
Acyclic Data	Read/write record, max. 240 bytes per telegram

Functions	Process- and diagnostic alarm DCP VLAN- and priority-tagging Context management over CLRPC Diagnostic, max. 200 Bytes per telegram
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PROFINET Interface	
Controller	netX 500
Transmission Rate	100 MBit/s
Interface	100BASE-TX, potential free
Connector	2* RJ45

PROFIBUS-DP Master	
Slaves	Max. 125
Acyclic Data	DPV1 class 1 read/write, max. 240 bytes per telegram Process- and diagnostic alarm, diagnostic

PROFIBUS-DP Interface	
Controller	netX 500
Transmission Rate	9,6 kBit/s ... 12 MBit/s
Interface	RS-485, potential free
Connector	DSub female 9-pin

Note: All technical data are preliminary and can be altered without notice.

Parameter	Value
Diagnostic interface	Mini USB
Display	SYS, SF, BF, LINK, Rx/Tx, COM
Configuration	SYCON.net
Power supply	18 ... 30 V / 130 mA @ 24 V
Connector	Mini COMBICON 2-pin
Operating Temperature	0 ... 50 °C
Dimensions (L * W * H)	100 x 52 x 70 mm (without connector)
Mounting	Top-hat Rail, DIN EN 60715
Weight	150 g
CE sign	yes
Emission	CISPR 11 Class A
Noise Immunity	EN 61131-2: 2003

Product Overview

Article Designation	Article Number	Article
NT 50-PNS-DPM	1750.410	netTAP PROFINET IO-Proxy auf PROFIBUS-DP

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