

netTAP 100

Gateway without Limits

CONNECTED BY
netx

Description

Communication technologies in factory automation are currently faced by a change from traditional Fieldbus towards Real-Time-Ethernet based systems. An extension of Fieldbus installations or an integration of devices without Ethernet interface requires a transition from one system to another. The best solution for data exchange is the usage of gateways, which provide an interface to both worlds. But already the most important Fieldbus systems protocols CC-Link, CANopen, DeviceNet and PROFIBUS, as well as EtherCAT, Ethernet/IP, Modbus TCP, POWERLINK, PROFINET and SERCOS III are 10 different protocols in total. And the different Master- and Slave functionality will create up to 400 possible combinations. With consideration of simple serial protocols via RS232-, RS422- or RS485 interfaces you will easily reach more than 1000 different gateways resp. protocol conversions. This huge device diversity can only be realized economically either in a customer specific solution or in a modular way.

The netTAP fully uses the flexible characteristics of the network controller netX and provides a low-cost and easy solution for the different protocol conversions.

The different interfaces will be combined modularly in a compact housing for DIN-rail mounting, the associated firmware will be loaded via USB interface and the configuration will be done via drag & drop in a universal Windows tool.

Several LED's offer a fast and easy diagnostic functionality; for an easy maintenance or exchange of the device in the field installation the software and configuration can be stored and restored to/from a MMC- and SD-card.

Highlights

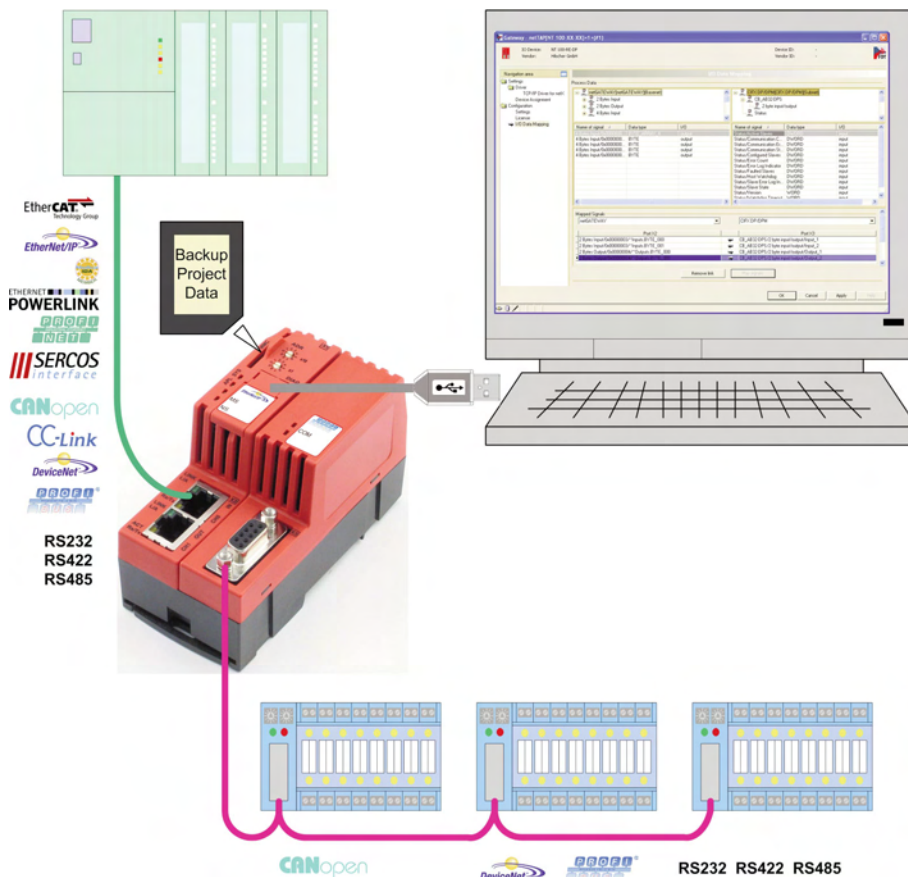
- Fieldbus to Fieldbus
- Real-Time-Ethernet to Fieldbus
- RS232/422/485 to Fieldbus or Real-Time-Ethernet
- Master or Slave to Master or Slave
- FDT/DTM configuration tool SYCON.net
- Configuration and Diagnostic via USB
- MMC- and SD-card to save and restore configuration



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Application



Technical Data

Protocol	Cyclic data max.
CANopen Master	7168 Byte I/O Data
DeviceNet Master	7168 Byte I/O Data
PROFIBUS Master	7168 Byte I/O Data
PROFIBUS Slave	488 Byte I/O Data
EtherCAT Slave	400 Byte I/O Data
Ethernet/IP Slave	1008 Byte I/O Data
Modbus TCP Slave	11520 Byte I/O Data
PROFINET IO Device	2048 Byte I/O Data

The maximum number of useable I/O data is always the lower number of the two protocols of a conversion.

Parameter	Value
Diagnostic Interface	Mini USB
Display	SYS, COM, LINK, Rx/Tx, protocol spec.
Configuration	SYCON.net
Power Supply	18 ... 30 V / 130 mA @ 24 V
Connector	Mini COMBICON 2-pin
Operating Temperature	0 ... 50 °C
Size (L x W x H)	100 x 52 x 70 mm (without connector)
Mounting	DIN-Rail, DIN EN 60715
Weight	150 g
CE Sign	yes
Emission	CISPR 11 class A
Noise Immunity	EN 61131-2: 2003

Product Overview

Article Name	Article Number	Article	Conversion
NT 100-DP-CO	1718.160	Gateway PROFIBUS / CANopen with	PROFIBUS-DP Slave to CANopen Master
NT 100-RE-CO	1712.160	Gateway Real-Time-Ethernet / CANopen with	Ethernet/IP Slave to CANopen Master Modbus TCP Slave to CANopen Master
NT 100-RE-DN	1712.170	Gateway Real-Time-Ethernet / DeviceNet with	EtherCAT Slave to DeviceNet Master Modbus TCP Slave to DeviceNet Master
NT 100-RE-DP	1712.180	Gateway Real-Time-Ethernet / PROFIBUS with	Modbus TCP Slave to PROFIBUS Master PROFINET Slave to PROFIBUS Master Ethernet/IP Slave to PROFIBUS Master

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