

netTAP 100

High-end Gateway for Industrial Automation networks

- 💡 **For Fieldbus to Fieldbus, to Serial or Ethernet conversions**
- 💡 **Combines Master and Slave in any variation**
- 💡 **Loadable firmware for flexible use of other conversions**
- 💡 **Device replacement in seconds via memory card based loading**



CANopen

CC-Link

DeviceNet

EtherCAT

EtherNet/IP

Modbus

ETHERNET
POWERLINK

SERCOS
the automation bus

PROFI
NET

PROFI
BUS

I/O protocol gateway for demanding conversions

netTAP 100 is the protocol converter for sophisticated conversions and supports 2-port Real-Time Ethernet to serial, Fieldbus to Fieldbus, Real-Time Ethernet to Fieldbus and Real-Time Ethernet to Ethernet automation protocols. It supports slave and master functionality in any combination. Master functionality is unrestricted when licensed.

A memory card slot allows the user to save firmware and configuration data on a removable card. In case of failure all that is necessary to bring the plant back on line within seconds is to move the memory card from the old netTAP 100 onto a spare unit.

Apart from standard protocols, netTAP 100 supports the creation of serial protocols with the Lua-based scripting language netSCRIPT. A full featured development environment is included within the delivery. It allows the comfortable and rapid programming of any proprietary serial protocol as well as the I/O data pre-processing during the conversion into the other field protocol.

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PRODUCT INFORMATION

TECHNICAL DATA

Technical Data

Operating temperature

±0 ... +60 °C

Power Supply

+18 ... +30 V / 130 mA @ +24 V

Dimensions (L x W x H)

100 x 52 x 70 mm (without connector)

Weight

150 g

Diagnostic Interface

Mini-USB

Displays

SYS, COM, LINK, Rx/Tx, protocol specific

Configuration

SYCON.net, Windows® 7 or higher

Connector

Mini-COMBICON 2-pin

Mounting

DIN-Rail, DIN EN 60715

Certification

CE Sign, UL 508

Emission | Noise Immunity

CISPR 11 Class A | EN 61131-2:2003

Maximum Cyclic Process Data

	Master	Slave
ASCII	2024	Bytes I/O-Data
CANopen	7168	1024 Bytes I/O-Data
CC-Link		736 Bytes I/O-Data
DeviceNet	7168	510 Bytes I/O-Data
EtherCAT	11472	400 Bytes I/O-Data
EtherNet/IP	11472	1008 Bytes I/O-Data
Modbus RTU	11520	11520 Bytes I/O-Data
Modbus TCP	11520	11520 Bytes I/O-Data
netSCRIPT	2048	Bytes I/O-Data
POWERLINK		2980 Bytes I/O-Data
PROFIBUS	11472	488 Bytes I/O-Data
PROFINET	11472	2048 Bytes I/O-Data
Sercos	11472	256 Bytes I/O-Data

The maximum convertible number of I/O data of a protocol combination is determined by the protocol with the lower amount of I/O data.

Note: All technical data may be changed without further notice.

Article Overview

NXLIC-MASTER

8211.000 | Master license

SD-CARD

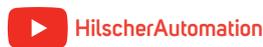
1719.003 | SD Card

NT 100-	CANopen		CC-Link		DeviceNet		PROFIBUS		PROFINET		EtherCAT Sercos		EtherNet/IP		Modbus TCP		POWERLINK		Modbus RTU		ASCII netSCRIPT	
	Master*	Slave	/	Slave	Master*	Slave	Master*	Slave	Master*	Slave	Master*	Slave	Master*	Slave	Master*	Slave	Master*	Slave	Master	Slave	/	
CANopen	Master*	/	CO-CO	/	CO-CC	/	DN-CO	/	DP-CO	/	RE-CO	/	RE-CO	/	RE-CO	RE-CO	RE-CO	/	RE-CO	CO-RS	CO-RS	CO-RS
	Slave	CO-CO	CO-CO	/	CO-CC	DN-CO	DN-CO	DP-CO	DP-CO	RE-CO	RE-CO	RE-CO	RE-CO	RE-CO	RE-CO	RE-CO	RE-CO	/	RE-CO	CO-RS	CO-RS	CO-RS
CC-Link	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	Slave	CO-CC	CO-CC	/	/	DN-CC	DN-CC	DP-CC	DP-CC	RE-CC	RE-CC	RE-CC	RE-CC	RE-CC	RE-CC	RE-CC	RE-CC	/	RE-CC	/	/	/
DeviceNet	Master*	/	CO-DN	/	DN-CC	/	DN-DN	/	DN-DP	/	RE-DN	/	RE-DN	/	RE-DN	RE-DN	RE-DN	/	RE-DN	DN-RS	DN-RS	DN-RS
	Slave	CO-DN	CO-DN	/	DN-CC	DN-DN	DN-DN	DN-DP	DN-DP	RE-DN	RE-DN	RE-DN	RE-DN	RE-DN	RE-DN	RE-DN	RE-DN	/	RE-DN	DN-RS	DN-RS	DN-RS
PROFIBUS	Master*	/	CO-DP	/	DP-CC	/	DN-DP	/	DP-DP	/	RE-DP	/	RE-DP	/	RE-DP	RE-DP	RE-DP	/	RE-DP	DP-RS	DP-RS	DP-RS
	Slave	CO-DP	CO-DP	/	DP-CC	DN-DP	DN-DP	DP-DP	DP-DP	RE-DP	RE-DP	RE-DP	RE-DP	RE-DP	RE-DP	RE-DP	RE-DP	/	RE-DP	DP-RS	DP-RS	DP-RS
PROFINET	Master*	/	RE-CO	/	RE-CC	/	RE-DN	/	RE-DP	/	/	/	/	/	RE-EN	RE-EN	RE-EN	/	RE-EN	RE-RS	RE-RS	RE-RS
	Slave	RE-CO	RE-CO	/	RE-CC	RE-DN	RE-DN	RE-DP	RE-DP	/	/	/	/	RE-EN	RE-EN	RE-EN	RE-EN	/	RE-EN	RE-RS	RE-RS	RE-RS
EtherCAT Sercos	Master*	/	RE-CO	/	RE-CC	/	RE-DN	/	RE-DP	/	/	/	/	/	RE-EN	RE-EN	RE-EN	/	RE-EN	RE-RS	RE-RS	RE-RS
	Slave	RE-CO	RE-CO	/	RE-CC	RE-DN	RE-DN	RE-DP	RE-DP	/	/	/	/	RE-EN	RE-EN	RE-EN	RE-EN	/	RE-EN	RE-RS	RE-RS	RE-RS
EtherNet/IP	Master*	/	RE-CO	/	RE-CC	/	RE-DN	/	RE-DP	/	RE-EN	/	RE-EN	/	RE-EN	RE-EN	RE-EN	/	RE-EN	RE-RS	RE-RS	RE-RS
	Slave	RE-CO	RE-CO	/	RE-CC	RE-DN	RE-DN	RE-DP	RE-DP	RE-EN	RE-EN	RE-EN	RE-EN	RE-EN	RE-EN	RE-EN	RE-EN	/	RE-EN	RE-RS	RE-RS	RE-RS
Modbus TCP	Master	RE-CO	RE-CO	/	RE-CC	RE-DN	RE-DN	RE-DP	RE-DP	RE-EN	RE-EN	RE-EN	RE-EN	RE-EN	RE-EN	RE-EN	RE-EN	/	RE-EN	RE-RS	RE-RS	RE-RS
	Slave	RE-CO	RE-CO	/	RE-CC	RE-DN	RE-DN	RE-DP	RE-DP	RE-EN	RE-EN	RE-EN	RE-EN	RE-EN	RE-EN	RE-EN	RE-EN	/	RE-EN	RE-RS	RE-RS	RE-RS
POWERLINK	Master*	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	Slave	RE-CO	RE-CO	/	RE-CC	RE-DN	RE-DN	RE-DP	RE-DP	/	/	/	/	RE-EN	RE-EN	RE-EN	/	/	RE-RS	RE-RS	RE-RS	
Modbus RTU	Master	CO-RS	CO-RS	/	/	DN-RS	DN-RS	DP-RS	DP-RS	RE-RS	RE-RS	RE-RS	RE-RS	RE-RS	RE-RS	RE-RS	RE-RS	/	RE-RS	/	/	/
	Slave	CO-RS	CO-RS	/	/	DN-RS	DN-RS	DP-RS	DP-RS	RE-RS	RE-RS	RE-RS	RE-RS	RE-RS	RE-RS	RE-RS	RE-RS	/	RE-RS	/	/	/
ASCII netSCRIPT	/	CO-RS	CO-RS	/	/	DN-RS	DN-RS	DP-RS	DP-RS	RE-RS	RE-RS	RE-RS	RE-RS	RE-RS	RE-RS	RE-RS	RE-RS	/	RE-RS	/	/	/

Ordering example: PROFIBUS Master to EtherNet/IP Slave = NT 100-RE-DP

* Master license must be ordered separately (Modbus RTU/TCP without limitations)

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