

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

PROFINET

PROFIBUS

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.

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 × 52 × 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, UKCA

Emission | Noise Immunity

CISPR 11 Class A | EN 61131 - 2:2003

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

Maximum Cyclic Process Data

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

Product Overview

NXLIC-MASTER	8211.000	Master license
SD-CARD	1719.003	SD Card

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.

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