

netTAP 100

High-end Gateway for industrial Automation

- 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

EtherCAT

PROFINET

Modbus

DeviceNet

PROFIBUS

EtherNet/IP

SERCOS
the automation bus

ETHERNET
POWERLINK

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.

Technical Data / Product Overview

Protocol matrix / Article Description

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	/	DP-DN	/	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	DP-DN	DP-DN	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-RS	RE-RS	RE-RS
	Slave	RE-CO	RE-CO	/	RE-CC	/	RE-DN	RE-DP	RE-DP	/	/	/	/	/	RE-EN	RE-EN	RE-EN	RE-EN	/	/	RE-RS	RE-RS
EtherCAT Sercos	Master*	/	RE-CO	/	RE-CC	/	RE-DN	/	RE-DP	/	/	/	/	/	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-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-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)

Technical Data	Parameter	Value
	Diagnostic Interface	Mini-USB
	Displays	SYS, COM, LINK, Rx/Tx, protocol specific
	Configuration	SYCON.net, Windows® 7 or higher
	Power Supply	18 ... 30 V / 130 mA @ 24 V
	Connector	Mini-COMBICON 2-pin
	Operating temperature	0 ... 60 °C
	Dimensions (L x B x H)	100 x 52 x 70 mm (without connector)
	Mounting	DIN-Rail, DIN EN 60715
	Weight	150 g
	CE Sign	yes
	UL	UL 508
	Emission	CISPR 11 Class A
	Noise Immunity	EN 61131-2:2003
Card Slot	SD Card	

Note: Subject to change without notice.

Protocol	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.

Overview	Article Description	Article Number	Article
	NXLIC-MASTER	8211.000	Master license
	SD-CARD	1719.003	SD Card

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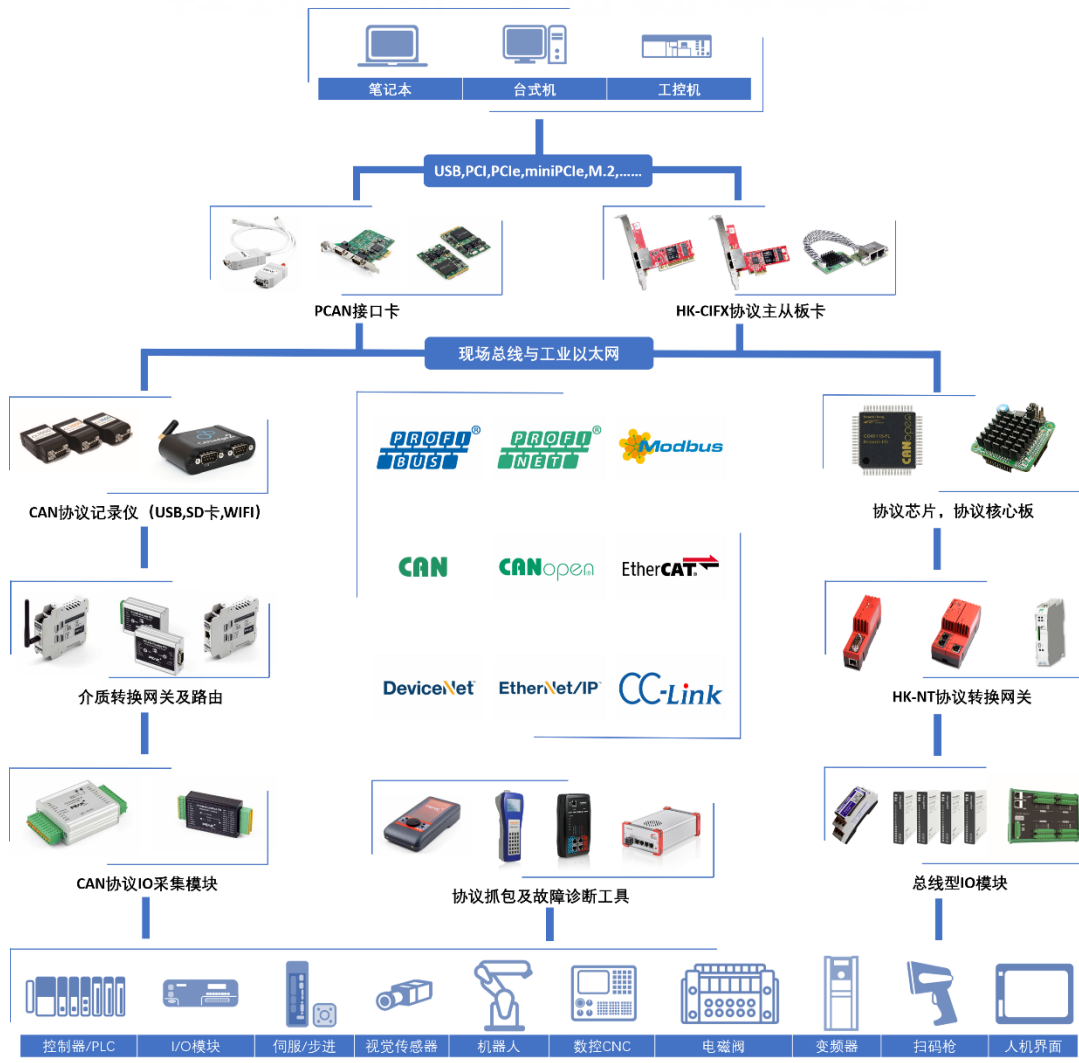
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联系我们

广州虹科电子科技有限公司
Hongke Technology Co., Ltd
www.hkaco.com



广州市黄埔区科学城神舟路 18 号润慧科技园 C 栋 6 层 邮编 510663

工业通讯事业部

事业部网站: www.hoautom.com

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华南区

谢晓锋 工业通讯事业部部长

电话/微信: 13660244187

QQ: 2916592843

邮箱: xxf@hkaco.com



华东区

许卫兵 技术销售工程师

电话/微信: 15900933547

QQ: 2029912093

邮箱: xwb@hkaco.com



华北区

郭泽明 技术销售工程师

电话/微信: 18922242268

QQ: 1341746794

邮箱: guo.zeming@hkaco.com



联系我们: [广州](#)|[上海](#)|[北京](#)|[成都](#)|[西安](#)|[苏州](#)|[台湾](#)|[香港](#)|[美国](#)