

netHOST RTE

LAN controlled Real-Time Ethernet master for DIN rail

- **Controlled via simple TCP/IP based access protocol**
- **For PROFINET, EtherCAT and EtherNet/IP**
- **Identical API as Real-Time Ethernet PC cards**
- **With application example, TCP/IP driver/coding and DLL as source code**
- **In dual-mode applicable for redundancy operations**

EtherCAT®

PROFINET®

EtherNet/IP™



A netHOST RTE is a full-featured and autonomously operating Real-Time Ethernet master allowing industrial PCs and other embedded systems the control of Real-Time Ethernet networks over an ordinary LAN connection.

A simple TCP/IP based transport protocol transfers the services between the controlling unit and the device. For device integration a DLL for Windows and a ,C' source code for embedded solutions is provided. In both cases the call interface (API) is identical to Hilschers PC cards. This makes a netHOST a „remotely controllable PC card for field installations“.

100 bytes process data inputs and outputs are exchangeable over the LAN network in about one millisecond. Acyclic services to the subordinate Real-Time Ethernet stations are supported as well. A bus configuration software is included in the delivery.

Two devices can be used in combination to realize redundant applications. Services are provided to execute a controlled switchover in the event one device fails or a line breaks. In case a device fails the memory card slot allows service personnel to perform a firmware and configuration recovery on a replacement device in less than a minute.

Technical Data / Product Overview

Parameter	Value
LAN Ethernet	IEEE 802.3 10 Base-T/100 Base-TX Open TCP/IP transport protocol Port 50111 and 50112 128 Bytes E and A in 1,33 ms typical
EtherCAT Master	IEC 61158 PDO and SDO(CoE) 200 Slaves / 5760 I, 5760 O data bytes
PROFINET Master	IEC 61158 RTC, RTA, DCP, CL-RPC, Alarms 128 Slaves / 5712 I, 5760 O data bytes
EtherNet/IP Scanner	IEC 61158 UCMM Class 3, DLR Beacon. Explicit Message Get/Set Attribute Single/All 64 Slaves / 5712 I, 5760 O data bytes

Technical Data

Parameter	Value
Operating Temperature	0 ... +60 °C
Storage Temperature	-40 °C ... +85 °C
Operating Voltage	18 ... 30 V / 130 mA @ 24 V
Dimensions (L x W x H)	100 x 52 x 70 mm (without connector)
Interfaces	USB Mini-B, 2 x RJ45, D-Sub DE-9 connector, COMBICON-5 pin
Indicators	SYS, APL, L/A, Rx/Tx, bus specific
Weight	150 g
CE Sign	yes
UL Sign	UL 508
RoHS conform	yes
REACH EG Nr.1907/2006	yes
Emission	CISPR 11 Class A
Noise Immunity	EN 61131-2:2003
Vibration, Shock	EN 61131-2:2003
Mounting	DIN rail, EN-50022 35mm x 7,5mm
Processor	netX 100
Card Slot	MMC, SD

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

Article Description	Article Number	Article
NHST-T100-EN/ECM	1890.110	netHOST EtherCAT Master, preloaded Firmware and Master license
NHST-T100-EN/PNM	1890.840	netHOST PROFINET IO Controller, preloaded Firmware and Master license
NHST-T100-EN/EIM	1890.820	netHOST EtherNet/IP Scanner, preloaded Firmware and Master license
NHST-T100-EN NXLIC-MASTER	1890.800 8211.000	netHOST for EtherCAT Master, PROFINET IO Controller, EtherNet/IP Scanner, loadable Firmware Master license
SD-CARD	1719.003	SD card for backup purpose

Overview

Headquarters

Germany
Hilscher Gesellschaft für
Systemautomation mbH
Rheinstrasse 15
65795 Hattersheim
Phone: +49 (0) 6190 9907-0
Fax: +49 (0) 6190 9907-50
E-Mail: info@hilscher.com
Web: www.hilscher.com

Distributors

More information at www.hilscher.com

Subsidiaries

China
Hilscher Systemautomation
(Shanghai) Co. Ltd.
200010 Shanghai
Phone: +86 (0) 21-6355-5161
E-Mail: info@hilscher.cn

France
Hilscher France S.a.r.l.
69500 Bron
Phone: +33 (0) 4 72 37 98 40
E-Mail: info@hilscher.fr

India
Hilscher India Pvt. Ltd.
Pune, Delhi, Mumbai
Phone: +91 11 26915430
E-Mail: info@hilscher.in

Italy
Hilscher Italia S.r.l.
20090 Vimodrone (MI)
Phone: +39 02 25007068
E-Mail: info@hilscher.it

Japan
Hilscher Japan KK
Tokyo, 160-0022
Phone: +81 (0) 3-5362-0521
E-Mail: info@hilscher.jp

Korea
Hilscher Korea Inc.
Seongnam, Gyeonggi, 463-400
Phone: +82 (0) 31-789-3715
E-Mail: info@hilscher.kr

Switzerland
Hilscher Swiss GmbH
4500 Solothurn
Phone: +41 (0) 32 623 6633
E-Mail: info@hilscher.ch

USA
Hilscher North America, Inc.
Lisle, IL 60532
Phone: +1 630-505-5301
E-Mail: info@hilscher.us