

# 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



## Real-Time Ethernet master for IT service & business networks

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.



→ QR Code Link: netHOST RTE  
 Service-Hotline: +49 (0) 6190 9907-90  
[www.hilscher.com](http://www.hilscher.com)

# Product Information

## Technical Data

### Technical Data

**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 × 52 × 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

**Certification**  
UL 508, CE, RoHS, UKCA, REACH EG Nr. 1907/2006

**Emission**  
CISPR 11 Class A

**Noise Immunity | Vibration, Shock**  
EN 61131-2:2003

**Mounting**  
DIN-Rail, EN-50022 35mm x 7,5mm

**Processor**  
netX 100

**Card slot**  
MMC, SD

### Technical Data

**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

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

### Product Overview

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



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