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 Hilscher's 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

### Operating 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 x 52 x 70 mm (without connector)
- **Weight**: 150 g
- **Certification**: UL 508, CE, RoHS, 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

### Interface
- **USB Mini-B, 2 x RJ45, D-Sub DE-9 connector, COMBICON-5 pin**
- **Indicators**: SYS, APL, L/A, Rx/Tx, bus specific

### Processor
- **netX 100**

### Card slot
- **MMC, SD**

### 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**

### Article Overview
- **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**
  - **1890.800** | netHOST for EtherCAT, PROFINET, EtherNet/IP, loadable Firmware
- **NXLIC-MASTER**
  - **8211.000** | Master license
- **SD-CARD**
  - **1719.003** | SD card for backup purpose

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**TECHNICAL DATA**

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