8030NTS/GPS

Because every fraction of a second counts ■

The compact way of network synchronization

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Completely maintenance-free and space-saving network timeserver for DIN rail mounting with up to 2 isolated and mutually independent timeserver modules and up to 4 ethernet interfaces ensuring enhanced security for business critical and even most demanding applications!

■ space-saving clock system in closed aluminium profile housing for easy and horizontal **DIN rail mounting** according to DIN EN 60715 TH35

■ important information for implementing and about operating status available via **status-LEDs at the front panel** (if WebGUI access is not available)

■ **simple, complete and safe operation and parameterisation** (password protection and activatable https protocol) via **password-protected WebGUI** (optional SSH/Telnet)

■ **22-channel GPS receiver** for L1 frequency (1,575.42 MHz) integrated

■ **one timeserver module integrated per default** with:

  ☐ 2 ethernet interfaces 10/100/1000 Mbit/s autosensing

  ☐ Network Time Protocol version 4 (RFC5905)

■ **improved security** ensured by
   * symmetric keys   * access restriction
   * autokey   * deactivation of non-used network protocols

■ cost-efficient extension of the base system with additional output modules ex works possible (**modular order concept**)

■ **synchronization status output** via optical coupler

■ redundant multiple validation of the synchronization signal for an **error-free and leap-free signal evaluation**

■ **SyncOFF Timer** (reception failure bypassing) for accurate operation even based on difficult reception conditions

■ high freewheel accuracy provided by GPS supported regulation of the internal quartz basis, various quartz options available

front view base system 8030NTS/GPS

The DIN rail network timeserver 8030NTS/GPS is ideal for everyone searching for a space-saving, flexible and cost-efficient solution with numerous configuration and extension options. Due to the configuration and extension options you can specify the functions of your individual 8030NTS/GPS timeserver at time of purchase.

To ensure enhanced security and availability in redundant networks one isolated, independent network timeserver module 8030NTS/M may additionally be integrated in the base system at time of purchase.

- network timeserver module 8030NTS/M:

    - 2 ethernet interfaces 10/100/1000 Mbit/s autosensing

    - Network Time Protocol version 4 (RFC5905)

Activation options per network timeserver module:

- Alarming

  - SNMPv2c / SNMPv3
    (MIB II, *hopf* Private Enterprise MIB, SNMP traps)

  - E-Mail Notification

  - SYSLOG

- Routing
  for configuring static routes based on special network configuration requirements

- VLAN support
  according to IEEE 802.1q

- Port aggregation (NIC Bonding/teaming)
  with support of IEEE 802.3ad trunks

- Parallel Redundancy Protocol (PRP)
  according to IEC 62439-3

- SINEC H1 time datagram

- Precise Time Protocol (PTP)
  according to IEEE 1588-2008

The options mentioned above can be activated on site after purchase of the appliance by entering a serial number-dependent activation key per network timeserver module for which the additional function is required.

In case other time synchronization options are required the DIN rail network timeserver 8030NTS/GPS may as well be configured with numerous available time synchronization modules for the output of:

- IRIG-B (modulated / unmodulated)
- DCF77 (modulated / unmodulated)
- Cyclic Pulses (PPS, PPM, etc.)
- Serial time datagram

The mentioned output modules are available in various electrical signal output versions as well as modules for fiber optic output.

Please note: If you choose to equip your system with one additional network timeserver module 8030NTS/M respectively with additional signal output modules mentioned above, the appliance will be delivered with a housing with extended dimensions: D 130mm x W 135mm x H 105mm

You may also decide on purchase which power supply to be configured for you:

Power supply standard delivery with:

- 100 – 240V AC (50/60 Hz)
- 110 – 250V DC

Power supply optionally available with:

- 24V DC (18 – 36V DC)
- 48V DC (36 – 76V DC)

Firmware updates via e-mail or download are available free of charge for the whole product life cycle of the appliance. Firmware can easily be updated via web interface.

In case you face any not listed requirements for time synchronization of your specific application, please do not hesitate to contact us via e-mail at **info@hopf.com**. We will be glad to work on a quotation for your individual solution!

We are looking forward to receiving your inquiry!

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Germany