

8030HEPTA/GPS

hopf
Elektronik GmbH



Because every fraction of a second counts ■
network synchronization in a compact design

hopf Elektronik GmbH

Nottebohmstrasse 41
58511 Luedenscheid
Germany

Phone: +49 (0)2351 9386 – 86

Fax: +49 (0)2351 9386 – 93

Email: info@hopf.com

Internet: <http://www.hopf.com>



facebook.com/hopfelektronik



twitter.com/hopfelektronik



linkedin.com/company/hopf-elektronik-gmbh

FACTS AT A GLANCE

Time server appliance with up to 5 isolated and mutually independent time server modules and up to 10 ethernet interfaces ensuring enhanced security for business critical and even most demanding applications!

- Space-saving 19" 1U/84HP rack chassis (Slim Line)
- At-a-Glance status LEDs at front and rear panel
- LCD display at front panel with background illumination for quick and easy commissioning and monitoring of operation status on site
- Integrated 22-channel GPS receiver for L1 frequency (1,575.42 MHz)
- One integrated time server module per default with:
 - 2 ethernet interfaces 10/100/1000 Mbit/s autosensing
 - Network Time Protocol version 4 (RFC5905)
- Easy setup and configuration of the network time server modules via web interface, no serial connection necessary
- Synchronization of IEC 61850 compatible devices
- Four free slots available by default for cost-efficient extension of the base system with additional output modules ex works (modular order concept)
- Integrated synchronization status output via optical coupler
- Redundant multiple validation of synchronization signal for error-free and leap-free signal evaluation
- SyncOFF timer ensuring accurate operation even in most difficult GPS reception conditions (reception failure bypassing)
- High freewheel accuracy provided by GPS-aided regulation of internal quartz base, various crystals available
- Buffered backup clock for at least 3 days bridging time, maintenance-free
- Automatic changeover of daylight-saving time supported (configurable parameters for changeover switching points)
- Automatic evaluation and handling of leap second

EXTENSIONS & OPTIONS



rear view 8030HEPTA/GPS base system with
2 ethernet interfaces 10/100/1000 Mbit/s autosensing integrated by default,
1 USB-port and status LEDs

The network time server 8030HEPTA/GPS is ideal for everyone searching for a space-saving and budget-friendly solution with numerous configuration and extension options.

Up to four additional isolated and mutually independent network time server modules 8030NTS/M may be integrated into the base system ensuring enhanced security and availability in redundant networks.

- network time server module 8030NTS/M:
 - 2 ethernet interfaces 10/100/1000 Mbit/s autosensing
 - Network Time Protocol Version 4 (RFC5905)



rear view base system 8030HEPTA/GPS
extended with 4 mutually independent
network time server modules 8030NTS/M

EXTENSIONS & OPTIONS

Activation options per network time server module:

- Alarming
 - SNMPv2c / SNMPv3
(MIB II, **hopf** Private Enterprise MIB, SNMP traps)
 - Email 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 time server module for which the additional function is required.



front view 8030HEPTA/GPS with at-a-glance status-LEDs and LCD Display

EXTENSIONS & OPTIONS

In case other time synchronization options are required the 8030HEPTA/GPS network time server 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 output modules are available in various electrical signal output versions as well as modules for fiber optic output.

Power supply standard delivery with:

- 100 – 240V AC (50/60 Hz)

Power supply optionally available with:

- 24V DC (18 – 36V DC)
- 48V DC (36 – 76V DC)
- 110 – 250V 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 email 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!

Referring to the information in this brochure: After the editorial deadline of this publication, September 1, 2016, changes may have been made to the product. Subject to changes of structural or design changes, changes to the scope and scale of discounts by the manufacturer during the delivery period as long as the changes or deviations are reasonable under consideration of the interest of the seller to the buyer.

All rights reserved. © **hopf** Elektronik GmbH, Nottebohmstrasse 41, 58511 Luedenscheid, Germany

