

# 8029HEPTA DataCenter NTP Time Server

## Technical Data.

General	
Housing:	19" 1RU/84HP - depth 230mm (sheet steel / aluminium)
Protection Class:	IP20
Net Weight:	approx. 3.0kg
MTBF:	>250,000h (without display)

Power Supply	
Input Voltage:	100-240V AC, 47-440Hz 110-250V DC
Power Consumption:	max. 20VA (typ. 7VA)
Optional:	24V DC (18-36V) 48V DC (36-76V)

Ambient Conditions		
Temperature:	Operation:	0°C ... +50°C
	Storage:	-20°C ... +75°C
Humidity:		max. 95%, non condensing

GPS synchronization input	
Receiver Type:	12 channel receiver, C/A-Code
Evaluation:	L1 frequency (1,575.42MHz)

Accuracy	
Internal PPS pulse:	< ± 100ns
VCO Regulation:	± 0.1ppm, after 30min. GPS reception
Drift for T= +20°C (const.):	after 1h: 0.36msec
(Freewheel accuracy)	after 24h: 8.64msec

### permanent Interfaces

- 1x Ethernet 10/100 MBit autosensing via RJ45
- 1x USB-Port for update and recovery function
- 1x optical coupler for synchronization status output
- **Optional:** up to 6 additional mutually independent NTP time server can be integrated

### Time Protocols

- NTPv4 Server (downwardly compatible NTPv3, NTPv2)
- NTP Broadcast
- NTP Multimode
- NTP Client for further NTP Servers (redundancy)
- SNTP Server
- SINEC H1 time datagram - optional - activation key necessary
- RFC-867 DAYTIME Server
- RFC-868 TIME Server

### RFC Listing of Supported Protocols

- NTPv4 - Protocol and Algorithms Specification (RFC 5905)
- NTPv4 - Autokey Specification (RFC 5906)
- PPS API (RFC 2783)
- DHCP (RFC 2131)
- Time Protocol (RFC 868)
- Daytime Protocol (RFC 867)
- HTTP (RFC 2616)
- HTTPS (RFC 2818)
- SSH-2 (RFC 4250-4256, 4335, 4344, 4345, 4419, 4432, 4716, 5656)
- TELNET (RFC 854)
- SNMPv2 (RFC 1213, RFC1901-1908) - optional
- SNMPv3 (RFC 3410-3418) - optional
- SYSLOG (RFC 5424) - optional
- SMTP (RFC 5321) - optional