

# 8029NTS NTP Time Server for DIN Rail mounting

## Technical Data.

General	
Housing:	for 35mm DIN Rail mounting according to DIN EN 60715 TH35
Protection Class:	IP30
Net Weight:	approx. 0.8kg
Dimension:	Standard dimensions: W100mm x H105mm x D130mm Please note: If you choose to equip your system with 1 additional independent NTP time server / with additional signal output modules, the application will be delivered with an extended mounting rail: W135mm x H105mm x D130mm
MTBF:	>250,000h

Power Supply	
Input Voltage:	100-240V AC, 47-440Hz 110-250V DC
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

### 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:** additional signal output modules
  - \* 1 additional independent NTP time server can be integrated
  - \* IRIG-B (analogue / digital)
  - \* DCF77 pulse
  - \* cyclic pulses

### Time Protocols

- NTPv4 Server
- NTP Broadcast
- NTP Multimode
- NTP Client for further NTP Servers (redundancy)
- SNTP Server
- SINEC H1 time datagram - optional
- 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)
- SNMP (RFC 1213, RFC1901-1908) - optional
- SYSLOG (RFC 5424) - optional
- SMTP (RFC 5321) - optional

Customized system modifications are available upon request!