

NTS-time-converter

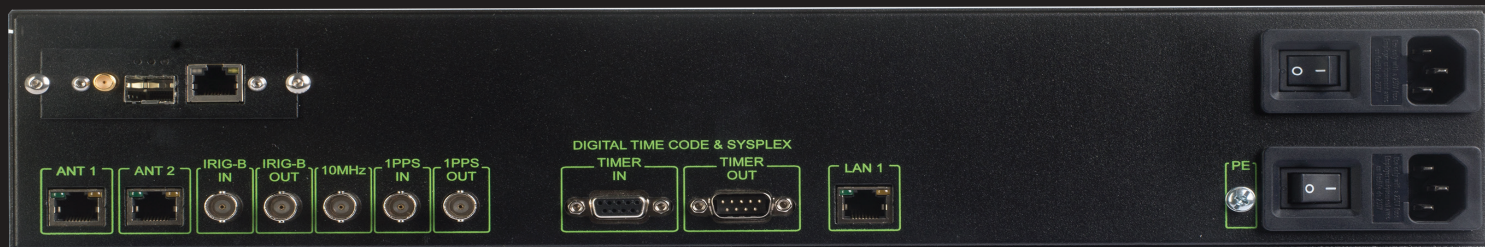
NTP/PTP IEEE1588 to IRIG-B Time Converter

- INPUT NTP/SNTP/PTP (IEEE1588)
- OUTPUT IRIG-B, PPS, NMEA



- OCXO Holdover option*
- Leap Second UTC support
- LAN1/LAN2 100Mbps
- LAN3/LAN4 1GE (SFP, RJ45)
- PPS (Pulse Per Second)
- PPM (Pulse Per Minute)
- PPH (Pulse Per Hour)
- TCP/IP incl. IPv4 & IPv6
- SNMP v1,v2,v3
- MD5, RSA, DSA, SSL security
- RS232/485 & USB interface
- IEEE 61850-3 IEEE 1613
- remote configuration:
HTTP, HTTPS, TELNET, SSH
- NTP authentication
- Front panel status indication





Synchronization INPUT Time Protocols: NTP v2,v3,v4, SNTP, PTPv2*

NTP/SNTP: RFC1305 RFC1119 RFC5905 RFC5906 RFC5907 RFC1769 RFC2030
 PTP/IEEE1588:2008 with hardware PHY timestamping (profile default, power, telecom)
 Supports: Peer-to-peer, End-to-end PTPv2

Synchronization INPUT I/O

- 1x SFP 1GE ETHERNET (PTP SLAVE, NTP/SNTP CLIENT)
- 1x RJ45 GE ETHERNET (PTP SLAVE, NTP/SNTP CLIENT)
- 1x BNC PPS-IN TTL LEVEL
- 2x RJ45 RS485 GNSS NMEA INPUT WITH PPS SUPPORT (REQUIRING NTS-ANTENNA)

Synchronization OUTPUT Time Protocols: IRIG-B AM & DCLS

IRIG-B AM (Amplitude modulation)
 IRIG-B DCLS (Direct Current Level Shift)

Synchronization OUTPUT I/O

- 1x IRIG-B AM (1kHz)
- 1x IRIG-B DCLS (ALSO WITH FO OUTPUT FACILITY)
- 1x 10MHz (option available w/ OCXO holdover*)
- 1x BNC (2-pin PPS/PPM/PPH OUTPUT TTL LEVEL)
- 2x RJ45 RS485 GNSS NMEA ANTENNA EMULATION WITH PPS SUPPORT

Remote configuration

SNMP (v1,2 and v3) MIB 2 RADIUS HTTP HTTPS SSH TELNET NTPq/NTPdc

Front panel status indication IRIG PTP/IEEE1588 NTP LAN PPS GNSS OSC Back panel POWER

Accuracy of conversion from PTP to IRIG

Better than 2 microseconds (typically 1us). Support UTC Leap Second

Mechanical/environmental

- Size: 484 x 300 x 88,8 mm (RACK'19 2U)
- Power: 110/230 VAC & VDC (max 1A)
- Operating temperature: 0°C to +60°C
- Storage temperature: -40°C to +80°C
- Humidity: up to 95%

Approved for:

IEEE 61850-3
 UL 60950-1
 IEEE1613
 IEEE1588:2008 (PTPv2)
 CE/PCC/ISO9001

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