The **NTP100-OSC** NTP time server synchronizes to a TCXO (temperature-compensated internal oscillator) and sends NTP reference signals to NTP devices via Ethernet, maintaining an accuracy of ± 1min/year or < 165ms per day. An optional OCXO increases stability to ± 250ms/year.

Standard Features

- Compact NTP client / server
- Internal precision TCXO accurate of ± 1 min/year
- Optional OCXO accurate of ± 250ms/year
- NTP output accuracy of ± 2 milliseconds
- 6-digit clock display (red)
- Adjustable time display brightness

Specifications

HOLDOVER ACCURACY

- Internal precision TCXO temperature-compensated crystal oscillator provides accuracy of ± 1min/year or < 165 ms/day
- High-stability option with OCXO provides typical stability of 1 ppb/day (± 250ms/year) after 30 days of aging

NETWORK COMPATIBILITY

- Supports NTP, DHCPv4, DHCPv6 for automatic acquisition of network address, name servers, and timeserver configuration
- Telnet/SSH communication
- IPv4/IPv6 compatible
- SNMP with custom MIB

CONFIGURATION

- Configure devices through provided WinDiscovery or SSH
- Configuration is saved to nonvolatile memory and survives power losses
- Authenticated network messages prevent unauthorized tampering of clock configuration

CONNECTORS

- RJ45 - 10/100MB Ethernet
- DC input - 2.1mm male jack
- RS-232 - 9 pin male
- USB for configuration

POWER

- DC input (9-28 VDC)
- Power consumption: < 7.5W
- Includes external 24 VDC wall-mount power supply with locking DC plug (UL and CE listed)

OPERATING PARAMETERS

- Temperature: 0 to 60°C
- Humidity: Up to 90% (non-condensing)
- MTBF: 625,979 hours
  (Calculated using Fixed/Ground Mil HDBK 217F assumptions)
- IP Rating: IP30

PHYSICAL

- Size: 6.44 x 4.06 x 1.44 in (16.35 x 10.32 x 3.65 cm)
- Weight: 16 oz (453.6 g)

COMPLIANCE

- FCC, ROHS, CE Marked, ANSI

Mount multiple units with the RM4 rack mount