



NTPSync XLS[®]



NTPSync XLS[®] Model

NTPSync XLS[®] is a stratum-1 standalone time server which provides a high-accuracy reference time to IP networks via the Network Time Protocol (NTP).

Configurable settings can be modified via menus on the 2 row x 40-character LCD display with back light and the four buttons in the front panel. The single board computer runs a Linux Operating System which is loaded from flash disk into RAM at power-up. In addition to NTP, the Linux OS supports other network services like SSH, HTTP(S), and SNMP. The system supports IPv4 and IPv6 which allows remote configuration or monitoring across the network, e.g. using a common web browser.

Remote access from the network can also be disabled for security reasons. Changes in the GPS receiver status, error conditions, and other events generated error messages can be logged on either the local Linux system, or on another syslog server in the network.

Additionally, those messages can be sent to a management console by SNMP traps, automatic emails, by Windows Popup-Messages or optional remote NTP displays. If it is necessary to provide redundancy against hardware failure then it's also possible to install several NTPSync XLS servers in the same network.

System Features:

- ▶ **USB Slot:**
For Software Update and Configuration Transport
- ▶ **10/100 Ethernet:**
1, 2 and 3 port options
- ▶ **IPv4 and IPv6**
- ▶ **Output Options:**
Up to 4 10 MHz outputs via BNC connectors
- ▶ **Time Code Option:**
IRIG B
- ▶ **Alarms:**
Email, SNMP Traps, Relay Output, Windows Popup Message

Rear Panel View



AC Power Supply

Shown with optional rear panel Input/Output configuration

NTPSync XLS® Specifications

GPS Receiver

6 Channel C/A/ Code
External Antenna, 1000 VDC insulated, connected with up to 250m of standard RG58 cable

Power Options

Available with AC power:
AC 100-240 VAC, 50-60 Hz

Output Signals (with optional configurations)

2 RS-232, independent, configurable output strings
PPS, PPM, TTL, active high
10 MHz, TTL into 50Ω
Alarm relay output, 3 pin DFK connector

Chassis Dimensions

Height: 43 mm (1U)
Width: 483 mm (19" EIA Rack)
Depth: 290 mm

Accuracy of Frequency

+/- 1×10^{-9} after synchronization and 20 min. of operation
+/- 2×10^{-8} during first 20 min. of operation
One day, free running: +/- 2×10^{-8} with optional OCXO
One year, free running: +/- 5×10^{-7}

Product Includes

NTP Server
GPS Antenna w/mounting mast and clamps
20m RG58 cable
Power Cord
Printed Manual

SSB Phase Noise

-60 dB/Hz @ 100 Hz
-76 dB/Hz @ 1 KHz
-101 dB/Hz @ 10 KHz

Supported Network Protocols

NTP broadcast mode
NTP v2, v3, v4
FTP
IPv4, IPv6
DHCP (client)
HTTP, HTTPS w/OpenSSL
SNMP v1, v2, v3
SSH2
TIME

Certifications



Notes:

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