

TimeTools NTP s5100 GPS NTP Time Server

- Stratum 1 NTP/SNTP IP Network Time Server utilising GPS.
- NTP version 4.2.0 (latest release).
- Highly accurate: Ethernet NTP output jitter typically within 50 microseconds of UTC.
- High Reliability: Convection cooled, solid-state design, no moving parts.
- Web based user interface.
- Free firmware upgrades.
- 3-Year Warranty.
- 30-day money-back guarantee.



Product Overview

TimeTools NTP s5100 is a 1U high, rack-mountable stratum 1 GPS NTP Server. It utilises an unmodified version of the latest network time protocol distribution, NTP version 4.2.0.

An integral GPS receiver constantly tracks up to 12 satellites simultaneously to provide a highly accurate timing reference. An Ethernet NTP output jitter of less than 50 microseconds is typically achieved.

The unit is a low-power convection cooled device with no moving parts, aiding long-term reliability. Our confidence in the reliability of the NTP s5000 is reflected in the provision of a 3-year warranty.

An easy to use password-protected web interface is provided for system configuration and management. FTP can be utilised to download NTP statistics and upload firmware upgrades, provided by TimeTools free of charge.

GPS Antennas



Mini Patch GPS Antenna. The mini patch GPS antenna is one of the smallest available providing a diminutive yet rugged GPS solution. The antenna is fully weather-proof and has a screw mount for ease of installation.



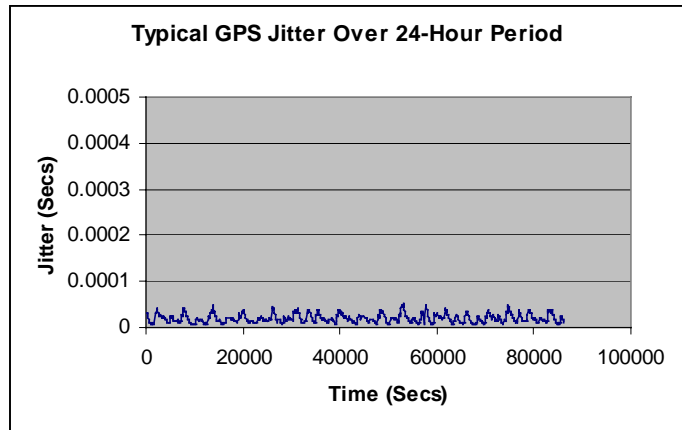
Jam-Resistant GPS Antenna. The jam-resistant GPS antenna is pole-mounting, fixed-site, jam resistant, roof mounted GPS antenna. The antenna is housed in a completely waterproof packaging designed to withstand exposure to shock, excessive vibration, extreme temperatures, rain, snow and sunlight.

Accuracy

With a consistent signal lock, the NTP s5100 GPS Time Server can maintain an accuracy of better than 50 microseconds UTC.

Jitter measures the variance between successive time queries.

The graph opposite shows the jitter between successive time queries of the GPS clock over a 24-hour period.



Product Specification

Accuracy	Ethernet NTP GPS PPS	< 50 microseconds UTC typical 100 nanoseconds UTC typical
Protocols	NTP SNTP Additional	NTP 4.2.0 (RFC 2030), NTP v4, NTP v3, NTP v2 SNTP v4 HTTP (Web), FTP, Telnet, RS232 Console, Syslog
Connectivity	Ethernet RS232 GPS	10/100 Mbit BaseT , RJ45 auto-sensing RS232 DB9 Console Configuration Port Coaxial TNC Antenna Connection
GPS	Integral GPS Receiver	12 Channel, L1 1575.42 MHz
Enclosure	Construction	1U High 19" Rack mount, 1.8mm Aluminium
	Dimensions Weight Operating Temperature	483 x 158 x 44 mm 2.2Kg -20C ~ +60C
	Relative Humidity	95% non-condensing
Power	Supply	Universal 85-264 VAC 47-440 Hz CE/UL/CSA Approved PSU with standard IEC inlet, other power supply options available on request.
	Power Consumption	12W approx
Warranty	3 Year Warranty	Extended warranty options available.

Product Codes

NTP s5100 with mini-patch antenna	S51-GNP
NTP s5100 with jam-resistant pole mounting antenna	S51-GNT

Accessories

Suppressors	Multi-strike Lightning suppressors for antennas	SPP-GPS
S51-GNP Cable S51-GNT Cable	20m Antenna Extension Cable for Patch Antenna	TCX-020
	30m Antenna Extension Cable for Pole Antenna	TCX-030
	50m Antenna Extension Cable for Pole Antenna	TCX-050
	100m Antenna Extension Cable for Pole Antenna	TCX-100
Antenna Mounts	Flat roof mount for pole antenna	MT1-GPS
	Wall mount for pole antenna	MT2-GPS