

GPS Time Server NTP100



Overview

The Network Time Protocol NTP Server NTP100 comes with 1 LAN port. It's a high-security network time server that leverages GPS and BeiDou satellite signals as a reference source to provide exceptional UTC time accuracy. It supports both Stratum 1 operation and Stratum 2 mode for flexible network synchronization. The GPS clock server is a highly reliable, security-hardened network appliance that synchronizes hundreds of thousands of NTP clients with best-in-class accuracy. It provides precise time-stamping for modern network operations, ensuring seamless and easy-to-use time service management. This high-security server eliminates local clock drifts and features an intuitive web interface, making it the premier synchronization choice for Healthcare, Transportation, Government, Manufacturing infrastructure.

Features

- Exceptional time accuracy to UTC
- Uses RFC1119/1305 NTP
- Supports RFC1769/2030 SNTP
- Use 2 types of satellite signals
- MTBF:90000 Hours
- Supports HTTP/HTTPS & high-security ciphers
- Web, CLI, and physical keyboard support
- Iptables, SNMP, and Syslog protection
- Trace log support & secondary development interface

Specification

Network Protocols	
NTP Support	RFC 1119 1305 NTP v2/v3/v4
SNTP Support	RFC 1769 2030 SNTPv2/v3/v4
Other Protocols	SNMPv1/v2, SSH, HTTP/HTTPS, SFTP
Performance	
Receiver	64-channel GPS/BEIDOU receiver
Start Time	Cold-start: 50s / Hot-start: 2s
Sensitivity	-162dBm
1PPS Accuracy	15ns (1 sigma)
Server Time Level	Stratum 1
Timing Capacity	>20,000 requests per second
Power Input	12V DC for red/amber/yellow clock, 18V DC for green clock
Precision	Server: 1ms / Client: 10ms
MTBF	90,000 Hours
Oscillator Aging (yearly)	
Rb	1E-9
OCXO	1E-7
Hardware & Memory	
RAM / ROM	256M / 256M
Power Supply	
Power Input	110-230V AC, 50Hz-60Hz
Consumption	10W
Power Feature	Dual power supplies (load sharing)
Mechanical/Environmental	
Operating Temperature	-10°C to 65°C
Operating Humidity	0%–90%, non-condensing
Dimensions	55* 41* 35 cm
Material	Metal
Weight	11KG
General	
Package	Time server, power cords, antenna kits, cables, lightning arrestors
Warranty	1 year
Compliance	
Compliance	CE, FCC, RoHS