



Unfailing Time Availability

High-Performance, Enhanced Security Network Time Server

Today's network and computer systems require time-sensitive data for such tasks as logging events, records management, network optimization and troubleshooting, and synchronizing operations.

Accurate timestamping is critical for root-cause analysis, detecting when problems arise, and discovering correlations. When network devices are out of sync by a few milliseconds, or even a few seconds, determining the sequence of events can be challenging.

NTP is a network time protocol that is used to synchronize device clocks in a packet-switched, variable latency network to within a few milliseconds of Coordinated Universal Time (UTC). In actuality, utilizing a precision time source such as a cesium oscillator or GPS receiver, NTP gives nominal accuracies of low tens of milliseconds on WANs and, sub-milliseconds on LANs.

Underscore's Unfailing Time Availability (UTA) NTP server delivers network-wide, split-second timing with the highest security, reliability, and ease of management. It is intended for applications that require an affordable state-of-the-art NTP server.

Benefits

- Accurate and secure source of network time inside your firewall.
- Hundreds of thousands of NTP clients can be reliably synchronized to within 1/2 - 2 milliseconds of each other.
- Very reliable and easy-to-use network time appliance for modern networks and business operations.
- Tracking security breaches, network usage, or problems affecting a large number of components.
- Reducing confusion in shared file systems. It is important file modification times to be consistent, regardless of what machine the file systems are on.

Key Features



IPv4/IPv6 dual stack.



Inbuilt Security and Access Control
Stratum 1 NTP v2, v3, v4 Time Server



Peering and stratum 2 (up to 15) via
NTP servers



Precision GPS time reference



High bandwidth NTP performance



Synchronizes security systems,
computers, network elements
(including PLC's, IED's, telemetry
systems), specialty devices, display
clocks



Meets regulatory compliance
standards

Capabilities

- Effective use of 1pps signal from satellite to maintain nanosecond accuracy.
- Secure Precision Time Protocol (PTP) and Network Time Protocol (NTP) support
- TCXO or OCXO to keep the hardware clock stable with minimal errors.
- Hardware timestamping.
- Precision time for the Network with less than 300 millisecond drift over a year.
- Broadcast or Unicast mode of synchronization.
- Support GNSS, GLONASS, Galileo, NavIC constellations
- Provides secure and error free time for the network in a failure tolerant manner.
- Inbuilt firewall preventing unauthorized access and tampering with the system.

Specifications

Specification	Details
Time facility	Using Universal Time Coordination (UTC)
Accuracy	Sub millisecond
Inputs	GPS antenna input through USB connector
Length of GPS sensor cable	2 meters, extendable to 30 meters with optional attachment
Outputs	Minimum 2 RJ-45 1Gbps LAN ports (independent)

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About Underscore:

Unlocking Cyber Resilience in the digital realm. Our robust platform combines proactive prediction, powerful forecasting, prioritizing risk, providing unparalleled real-time insights to keep you ahead of threats and assuring business continuity.

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