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

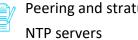
- Accurate and secure source of network time inside your firewall.
- Hundreds of thousands of NTP clients can be reliably synchronized to within 1/2 -2 milliseconds of each other.
- Very reliable and easy-to-use network time appliance for modern networks and business operations.
- Tracking security breaches, 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



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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