

SyncServer S600

GPS Stratum 1 Time Server

High Performance, Enhanced Security



Features

- Ultra high-bandwidth NTP time server
- Stratum 1 operations through GNSS satellites
- Four standard GbE ports, all with patented NTP hardware time stamping
- Security-hardened NTP Reflector™ with firewall protection
- Built-in DoS detection and protection
- Web-based protection with high security cipher suite
- Exceptional time accuracy to UTC
- Extended environmental specifications
- TACACS+, RADIUS, and LDAP
- IPv6/IPv4 on all ports
- Rubidium atomic clock or OCXO oscillator upgrades
- Dual power supply option
- GLONASS/BeiDou/SBAS option
- PTP grandmaster option

Benefits

- Synchronizes hundreds of thousands of NTP clients
- Security-hardened for peace-of-mind time service option
- Multiple GbE NTP ports for easy network configuration and integration
- Best-in-class time accuracy for improved log file time stamp precision and usability
- Very reliable and easy-to-use network time appliance for modern networks and business operations

First-in-Class Features

Rubidium Atomic Oscillator



Rubidium atomic clock oscillator upgrade not only improves the stability and ongoing accuracy of the SyncServer, but also improves its holdover accuracy in the event the GNSS signal is lost, providing excellent accuracy while allowing time for the user to correct the problem. The standard SyncServer is equipped with a crystal oscillator that keeps the clock accurate to specifications only while tracking GNSS.

Dual AC Power Supplies

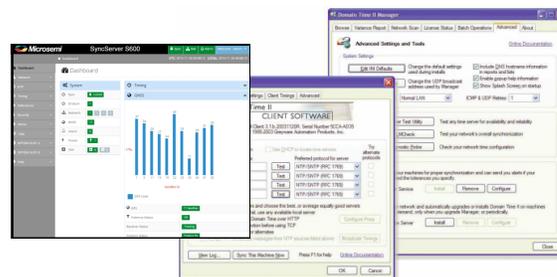


The dual AC power supplies provide hitless switching from one power supply to the other in the event of a power outage on one circuit of a dual circuit power scheme, or a power supply failure. The supplies are continuously monitored and an SNMP trap is sent, in the event one of them fails. For extra level of assurance, the power cord(s) supplied with the SyncServers have locking rear IEC 60320 connectors that prevent accidental decoupling.

IEEE 1588 PTP Grandmaster

Applications demanding precise time accuracy can benefit from the IEEE 1588 Precise Time Protocol (PTP). The S600 PTP Output license enables PTP grandmaster operations leveraging the built-in hardware time stamping on each LAN port of the S600.

Windows Time Synchronization Software



Network time synchronization software is an essential part of the time distribution requirements of network clients. Domain Time II for Windows is a comprehensive NTP software solution that simplifies network time synchronization. Versatile time clients and software servers keep the network hierarchy synchronized to the SyncServer. Easy-to-use management tools simplify and automate many tasks, related to keeping the clients up-to-date.

Security Protocol License with Security-Hardened NTP Reflector™/Firewall

The SyncServer S600 can be seriously hardened from both an NTP perspective and an authentication perspective through the Security Protocol license option, which includes the security-hardened NTP Reflector.

Operational Hardening through the 360,000 NTP packet per second NTP Reflector with 100% hardware-based NTP packet processing also works with a CPU-protecting firewall by bandwidth limiting all non-NTP traffic. The Reflector also monitors packet flow for DoS detection and reporting, yet remains impervious to the level of network traffic as it operates at line speed.

Authentication Hardening is available for NTP client or server authentication through the NTP Autokey function or user access authentication through TACACS+, RADIUS, and LDAP. Third party CA-signed X.509 certificates are installable for further hardening of management access.

Get Protected

Please contact your local Microsemi representative or Microsemi directly to receive a quote on Software Support and Extended Warranty for your SyncServer(s).



Microsemi Corporate Headquarters
 One Enterprise, Aliso Viejo, CA 92656 USA
 Within the USA: +1 (800) 713-4113
 Outside the USA: +1 (949) 380-6100
 Sales: +1 (949) 380-6136
 Fax: +1 (949) 215-4996
 email: sales.support@microsemi.com
 www.microsemi.com

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