

SyncServer S600 and S650 Model Comparison

SyncServer Model Comparison



Feature		Enterprise Time Server (S600)	Time & Frequency Standard (S650*)
Time Protocols	NTP Server (NTPd, SNTP, v2, v3, v4)	■	■
	NTP Peering/Client	■	■
	10,000 NTP requests/second capacity	■	■
	120,000 NTP requests/second capacity (NTP Reflector™, see note a)	○	○
Time References (inputs)	GNSS, 72 Channel Receiver	■	■
	NTP Peering	■	■
	IRIG B AM Input		■
	10 MHz Input		■
	1PPS Input		■
	IRIG B DCLS Input (b)		○
	1 & 5 MHz Input (b)		○
	10MPPS Input (b)		○
Standard Network Security Features	HTTPS/SSL (w/ disable function)	■	■
	SNMP v2/v3 (w/ disable function)	■	■
	DHCP/DHCP6	■	■
	SSH (w/ disable function)	■	■
	IPV4/IPv6	■	■
	MD5 for NTP	■	■
	Access Control Lists (one per port)	■	■
	CPU DoS (Denial of Service) protection via bandwidth limiting	■	■
Security Protocol License Option	NTP Reflector™ / Firewall (a)	○	○
	DoS (Denial of Service) Detection, Notification and Protection (a)	○	○
	RADIUS, TACACS+, LDAP	○	○
	NTPv4 Autokey (Server and Client)	○	○
Interfaces	Four (4) 100/1000Base-T Ethernet Ports	■	■
	Web Interface (maximum security cipher suite)	■	■
	Display/Keypad w/ lockout	■	■
	LED's: Sync, Network, Alarm	■	■
	RS-232 Console port	■	■
	RS-232 Data/Timing port	■	■
	Alarm Relay	■	■
Timing Outputs	1PPS Output	■	■
	NMEA-0183 Output	■	■
	NENA PSAP I/O	■	■
	IRIG B AM/DCLS Output		■
	10 MHz Output		■
	1 & 5 MHz Output		○
	Programmable Rates Output (0.5PPS to 10MPPS)		○
Miscellaneous	General server status logs (Syslog 1-8 servers)	■	■
	Auto check for software updates	■	■
	Email alerts	■	■
	Serve NTP in UTC or GPS timescale	■	■
	Alarms, user configurable	■	■
	Customizable login banners	■	■
	Option Module Slots	0	2
Hardware Options	Dual Power Supplies	○	○
	OCXO Oscillator upgrade	○	○
	Rubidium Oscillator upgrade	○	○
	Timing I/O Module (1 or 2 can be installed)		○
Software Options	Security Protocol License	○	○
	FlexPort™ Technology for Timing I/O modules		○
	PTP (PTP hardware included standard in all S6xx base models) [Future]	○	○
	GLONASS (hardware ready) [Future]	○	○

■ Standard Feature ○ Optional Feature

*Assumes at least one (1) Timing I/O module is installed. See SyncServer Option datasheet for all features and functions of the Timing I/O module and FlexPort™ License

(a) NTP Reflector™ function is included in the Security Protocol License Option (included in version 1.1 due April 2016)

(b) Included in the Timing I/O Module FlexPort™ License Option

SyncServer S600 NTP Network Time Server for Enterprise

Improve security, accuracy and reliability of time services on your Enterprise IT network with Microsemi's SyncServer S600. Easily integrable into existing, future and cloud network topologies, including SDN, this robust time synchronization solution delivers:

- Multiport GbE for easy accommodation of varying network topologies
- Ready compliance with increasingly stringent network security requirements
- IPv4/IPv6 Compliant

Highlights

- Highly secure NTP solution with Microsemi's security-hardened NTP Reflector technology
- 4 GbE LAN ports standard for advanced interoperability and ease of use
- High accuracy NTP hardware time-stamping standard
- Easy to use modem web interface



SyncServer S650 Time and Frequency Standard for Government Instrumentation

Flexibly deliver "any signal, any connector" time and frequency signals to your mission critical instrumentation systems with Microsemi's SyncServer S650. Designed for military and aerospace applications, the GPS referenced S650 delivers best-in-class synchronization performance and maximum adaptability. Innovative and highly versatile, this robust time and frequency instrument offers:

- Multi-connector, user definable output signal configuration, eliminating the need for distribution chassis
- Ready compliance with increasingly stringent network security requirements

Highlights

- FlexPort™ timing technology for "any signal, any connector" capability
- High accuracy NTP hardware time-stamping standard
- Multiple GbE network ports for easy network configuration and adaptation
- Reliable and rugged design for long product life and wide application scope
- Multiple security-hardened, network-based features for stringent IA requirements



S650 with two optional Timing I/O modules installed.



Microsemi

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

Microsemi makes no warranty, representation, or guarantee regarding the information contained herein or the suitability of its products and services for any particular purpose, nor does Microsemi assume any liability whatsoever arising out of the application or use of any product or circuit. The products sold hereunder and any other products sold by Microsemi have been subject to limited testing and should not be used in conjunction with mission-critical equipment or applications. Any performance specifications are believed to be reliable but are not verified, and Buyer must conduct and complete all performance and other testing of the products, alone and together with, or installed in, any end-products. Buyer shall not rely on any data and performance specifications or parameters provided by Microsemi. It is the Buyer's responsibility to independently determine suitability of any products and to test and verify the same. The information provided by Microsemi hereunder is provided "as is, where is" and with all faults, and the entire risk associated with such information is entirely with the Buyer. Microsemi does not grant, explicitly or implicitly, to any party any patent rights, licenses, or any other IP rights, whether with regard to such information itself or anything described by such information. Information provided in this document is proprietary to Microsemi, and Microsemi reserves the right to make any changes to the information in this document or to any products and services at any time without notice.

Microsemi Corporation (Nasdaq: MSCC) offers a comprehensive portfolio of semiconductor and system solutions for communications, defense & security, aerospace and industrial markets. Products include high-performance and radiation-hardened analog mixed-signal integrated circuits, FPGAs, SoCs and ASICs; power management products; timing and synchronization devices and precise time solutions, setting the world's standard for time; voice processing devices; RF solutions; discrete components; security technologies and scalable anti-tamper products; Ethernet Solutions; Power-over-Ethernet ICs and midspans; as well as custom design capabilities and services. Microsemi is headquartered in Aliso Viejo, Calif., and has approximately 3,600 employees globally. Learn more at www.microsemi.com.

©2016 Microsemi Corporation. All rights reserved. Microsemi and the Microsemi logo are registered trademarks of Microsemi Corporation. All other trademarks and service marks are the property of their respective owners.