SyncServer S600 and S650 Model Comparison

Microsemi Power Matters.™

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)	O	O
Time References (inputs)	GNSS, 72 Channel Receiver	■	■
	NTP Peering	■	■
	IRIG B AM Input		■
	10 MHz Input		■
	1PPS Input		■
	IRIG B DCLS Input (b)		O
	1 & 5 MHz Input (b)		O
	10MPPS Input (b)		O
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)	O	O
	DoS (Denial of Service) Detection, Notification and Protection (a)	O	O
	RADIUS, TACACS+, LDAP	O	O
	NTPv4 Autokey (Server and Client)	O	O
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		O
	Programmable Rates Output (0.5PPS to 10MPPS)		O
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	O	O
	OCXO Oscillator upgrade	O	O
	Rubidium Oscillator upgrade	O	O
	Timing I/O Module (1 or 2 can be installed)		O
Software Options	Security Protocol License	O	O
	FlexPort™ Technology for Timing I/O modules		O
	PTP (PTP hardware included standard in all S6xx base models) [Future]	O	O
	GLONASS (hardware ready) [Future]	O	O

■ Standard Feature O 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.

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