SyncServer S600 and S650 Model Comparison



SyncServer Model C	Comparison		<u>-8888 8888</u>
Features		S600	S650*
Time Protocols	NTP server (NTPd, SNTP, v3, v4)		
	NTP peering/client		
	10,000 NTP requests/second capacity with hardware timestamping		-
	360,000 NTP requests/second capacity (NTP Reflector™)**	0	0
	PTP grandmaster (software license)	0	0
Time References (inputs)	GNSS, 72 channel receiver, GPS constellation support		
	GLONASS/BeiDou/SBAS constellation support (software license)	0	0
	NTP peering		
	IRIG B AM input		
	10 MHz input		
	1PPS input		
	IRIG A/B/C37/E input ***		0
	1 MHz and 5 MHz input ***		0
	10MPPS input ***		0
Standard Network Security Features	HTTPS/SSL/SSH (w/disable function)	_	
	SNMP v2/v3 (w/disable function)	-	
	DHCP/DHCP6	-	-
	IPV4/IPv6	-	•
	MD5 for NTP	-	•
		-	•
	Access control lists (one per port) CPU denial of service (DoS) protection via bandwidth limiting	-	•
Security Protocol License Option	NTP Reflector/Firewall with 360,000 NTP requests/second**	0	0
	DoS detection, notification and protection**	0	0
	RADIUS, TACACS+, LDAP, X.509 certificates	0	0
	NTPv4 Autokey (server and client)	0	0
Interfaces	Four 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		
	IRIG A/B/C37/E/G/1344/NASA36/2137/XR3 outputs		0
	1 MHz and 5 MHz output		0
	Programmable rates output (0.5PPS to 10MPPS, 1PPM)		0
Miscellaneous	General server status logs (Syslog 1-8 servers)		
	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	0	0
	OCXO oscillator upgrade	0	0
	Rubidium oscillator upgrade	0	0
	Timing I/O module (one or two can be installed)		0
Software Options	Security Protocol license	0	0
	GLONASS/BeiDou/SBAS constellation support	0	0
	PTP grandmaster (PTP timestamping hardware standard in all S6xx base models)	0	0

[■] Standard feature O Optional feature

FlexPort™ technology for Timing I/O modules

^{*}Assumes at least one Timing I/O module is installed. See SyncServer Option datasheet for all features and functions of the Timing I/O module and FlexPort license
** NTP Reflector function is included in the Security Protocol license option
*** Included in the Timing I/O module FlexPort license option



SyncServer S600 and S650 Model Comparison

SyncServer S600 NTP Network Time Server for Enterprise

Improve security, accuracy, and reliability of time services on the 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 securityhardened NTP Reflector technology
- Four GbE LAN ports standard for advanced interoperability and ease of use
- High accuracy NTP hardware time-stamping standard
- Easy to use modem web interface

S600 Timing I/O Module



SyncServer S650 Time and Frequency Standard for Government Instrumentation

Flexibly deliver "any signal, any connector" time and frequency signals to the 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 Timing I/O Modules (With Optional Configuration)





Microsemi Corporate Headquarters

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

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