



The Most Comprehensive Range of Network Time Servers in the World.

LOWER YOUR RISK OF IT SYSTEM FAILURES

Many system administrators mistakenly assume that computer clocks are inherently accurate. Clocks drift due to oscillator quality, temperature changes and aging. Administrators also don't fully appreciate the consequences of making computers interdependent when the clocks in these computers don't agree. When the time on IT systems varies with each other, or with the correct time, processes fail, data can be lost, and security is compromised. How organizations keep track of time has a major impact on the overall security of the organization's IT infrastructure. Time mechanisms used to keep track of time need to be secure because they are usually vulnerable to exploitation by a hacker.

Symmetricom's comprehensive range of network time servers protect your IT operations from the "drifting" inherent in computer clocks as well as from the risks associated with getting time from the Internet. Our time servers are easy to install, easy to purchase and once installed you need not worry about time on your IT systems anymore.

THE RANGE OF SECURE, ACCURATE SYNCHRONIZATION SOLUTIONS

There are three main features that make for good network time keeping.

- A secure method to acquire and maintain accurate time
- A time source that provides accurate time
- Clocks on the various computers are synchronized by a timeserver

Symmetricom is the only supplier of comprehensive network time synchronization solutions that include the dedicated network time servers and the necessary synchronization, management and monitoring software that synchronizes the time on IT devices such as workstations, servers and routers. Our solutions keep log files accurate, applications correct and also offer the capability to monitor and manage all of the clients on the network.

SyncServer™ S100 is the most comprehensive NTP server on the market. It offers enhanced security features, multiple levels of time reference redundancy, dual high performance NTP network ports, and upgrades to rubidium atomic clock stability.

TymServe™ 2100 is a versatile time server offering varying time references choices, oscillator upgrades, and timing signal outputs such as IRIG B, 1 PPS and 10 MHz.

NTS-200 is a robust Stratum 1 and Stratum 2 network time server, with GPS and NTP time references and a single satellite timing mode for tracking satellites through a window.

TymServe™ 2100LD provides accurate time to the network as well as a time display on the unit for easy time monitoring.

NTS-150 is a cost effective GPS network time server to accurately synchronize enterprise servers, workstations, and routers. Optional UTC time display on unit for easy time monitoring.

Domain Time II is a comprehensive time client, server & management software suite for easy distribution, management and monitoring of time across the network.

Network Time Server Feature Comparison



SyncServer S100



NTS-200



TymServe 2100



NTS-150



TymServe 2100LD**

TIME PROTOCOLS

Server mode	✓	✓	✓	✓	✓
Broadcast mode	✓	✓	✓	✓	✓
Client mode	✓	✓			
Manycast Server/Client	✓				
SNTP	✓	✓	✓	✓	✓
Time	✓	✓	✓	✓	✓
Daytime	✓	✓	✓	✓	✓
Sysplex	✓		✓		✓

NETWORK CONNECTIONS

10/100Base-T (autosensing)	✓	✓		✓	
Dual port 10/100Base-T	✓				
10Base-T only			✓		✓

TIME REFERENCES

GPS	✓	✓	✓	✓	✓
NTP	✓	✓			
ACTS dial-up	✓		✓		
IRIG-B	✓		✓		
Standard Reference with Server	IRIG/ACTS/NTP or GPS/IRIG/ ACTS/NTP	GPS & NTP	IRIG or GPS	GPS	GPS

GPS SUBSYSTEM

Channels	8	12	8	12	8
Single Satellite Timing/ Window Antenna		✓		✓	

NETWORK/SECURITY PROTOCOLS

Telnet /FTP/TFTP		✓	✓	✓	✓
SNMP	✓	✓	✓	✓	✓
DHCP	✓	✓	✓	✓	✓
MD5	✓	✓	✓	✓	✓
HTTP Status-of-Server	✓	✓	✓		
HTTP Control-of-Server	✓	✓			
NTP v4 Autokey	✓				
HTTPS (SSL)	✓				
SSH Access	✓				
SSH Secure Copy	✓				

USER INTERFACE

LEDs	✓	✓	✓	✓	✓
RS-232	✓	✓	✓	✓	✓
Remote Access Choices	✓	✓	✓	✓	✓
Web Based Help	✓				
Email alerts	✓				
Display		✓	✓	0	✓
Keypad		✓	✓		

MISCELLANEOUS

1 PPS/IRIG-B/10MHz Outputs			✓		
OCXO Oscillator Upgrade			✓		
Rubidium Oscillator Upgrade	✓		✓		



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** TS2100LD to be discontinued March 2004.
 NTS-150 with display option is the replacement.

0 = Optional upgrade