

Network Time Server Product Feature Chart

	Sonoma	Ninja
Antenna Installation		
GPS	Roof-top or window-mount	Roof-top or window-mount
Physical Description		
Form Factor	19" 1U Rackmount	1.5"H x 4.44"W x 5.3"D
Weight	< 5 pounds	< 1 pound
Power	AC Input	DC Input
Power Supply Options	-48V Input, Dual AC/AC, Dual AC/DC, etc.	AC/DC Power Supply
Time Synchronization Accuracy to UTC(USNO)		
Receiver (GPS)	25 nanoseconds	25 nanoseconds
NTP Timestamp	10 microseconds	10 microseconds
NTP Client (depends on network)	½ - 2 milliseconds, typical	½ - 2 milliseconds, typical
Network Ports		
Number and Type	Two 10/100/1000 Base-T	One 10/100 Base-T
Network Time Protocols		
NTP Server (v2, v3, v4)	√	√
SNTP, Time, Daytime	√	√
Max NTP requests/second	7,500	2,500
Other Network Protocols		
HTTPS/SSL (Web Interface)	√	√
SNMP v1, v2c, v3 with Enterprise MIB	√	√
FTP and DHCP clients	√	√
SSH/SCP	√	√
Telnet client/server	√	√
MD5 for NTP	√	√
SYSLOG	√	√
IPv4 and IPv6	√	√
User Interface		
Vacuum-Fluorescent Display & Keypad *	Sonoma D12 model only *	
RS-232 Port	√	√
Ethernet Ports	Two 10/100/1000 Base-T	One 10/100 Base-T
LEDs (Alarm and Sync)	√	√
Web Interface	√	√
Statistical Performance Graphs (CPU, GPS, NTP, Oscillator)	√	√
Optional PTP/IEEE-1588		
Version	v2. On one or both ports.	v2. On one port.
Profiles	Default profile	Default and IEEE-802.1AS profiles
Timestamp Accuracy to UTC(USNO)	33 nanoseconds	33 nanoseconds
Other Optional Features		
Oscillator Upgrades (OCXO and Rubidium)	OCXO and Rubidium	OCXO
Pulse Rate Outputs (1PPS, 10M PPS, Programmable)	1PPS, 10M PPS, Programmable	1PPS, Programmable
IRIG-B Time Code (AM or DC)	√	√
Open-Collector Alarm	√	√
Sysplex Output, DDS Output and more.	√	√

* The only difference between Sonoma D12 and Sonoma N12 is the front-panel display & keypad.