



GPS NTP/PTP Time Source

NTP320 - NTP370 - NTP390

The NTP320/370/390 Series NTP Appliances use multiple GPS/GNSS satellite systems to generate a local Stratum 1 NTP Time source and PTPv2 Grandmaster for your equipment.

No stupid app, no online accounts, no subscription service, and no Internet needed. Manage and Monitor using CLI, SSH, and a local web browser.

Our NTP/PTP Appliances bring time synchronization to your isolated, disconnected, and air-gapped internal networks, No Internet needed.

Have Internet access, but want a local NTP source? All of our appliances can provide Stratum 1 NTP to your local data center, enterprise, or ISP.



	NTP320	NTP370	NTP390
NTP Stratum	GNSS – Stratum 1 PPS-IN – Stratum 2 Holdover – Stratum 7 Network Backup – Stratum 2+		
PTP Modes	IEEE-1588-2008(PTPV2) Grandmaster		
CPU & Storage	Nuvoton MA35D1 with 256MB RAM Boot: 512MB SLC NAND Flash; User: MicroSD slot		
Network	10/100Mbps Ethernet IPv4: Static or DHCP or Off IPv6: Static or SLAAC EUI-64, SLAAC Token, and/or DHCPv6 or Off		
System Oscillator	GPS-disciplined VC-TCXO (1ppm)		GPS-disciplined VC-OCXO (20ppb)
Administration	HTTP & HTTPS – View Only Certificate: Let's Encrypt or other ACME servers, HTTP and DNS types Admin Console / CLI: USB or SSH		
Max NTP Clients	Tracked: 250,000 unique IPs with JSON & CSV Export Untracked: 1,000,000 unique IPs Packet Rate: 10,000 packets/second		
Network ACLs	Separate ACLs for NTP, SSH, HTTP/S, SNMP		
Cloud-Free Technology	No stupid App, No online accounts, No subscription service, No Internet needed		
GNSS Module	uBlox MAX-M10S; GPS, GLONASS, Galileo, BeiDou (Not all combinations supported)		
Internal Power Backup	Supercapacitor for 3+ Hours for GPS and RTC		
Data Export	JSON System & Client data Prometheus-compatible Metrics Endpoint		
Protocol Support	NTPv4, PTPv2, SNTP, SSH, HTTP, HTTPS, SNMPv2, LLDP		
Input/Output	PPS Output; PPS Input, GPS-disciplined 1khz-10mhz Frequency Output		
Power	2W Typical, 5W Max 9-24V DC Barrel Input	2W Typical, 5W Max 9-24V DC Barrel and/or 802.3af/at PoE Input	3W Typical, 7W Max 9-24V DC Barrel and/or 802.3af/at PoE Input

Power Supply Choices

No Supply	Use PoE or provide your own supply
12V 1A DC	US (Type A), EU (Type C), UK (Type G), AU (Type I)

Antenna Choices

Indoor	Puck Antenna with Magnetic Base – 3M Cable
Outdoor Fixed Base	Dome with Screw Mount and either 5M or 10M Cable
Outdoor Multi-Axis Base	Dome with Screw Mount and either 5M or 10M Cable Base

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