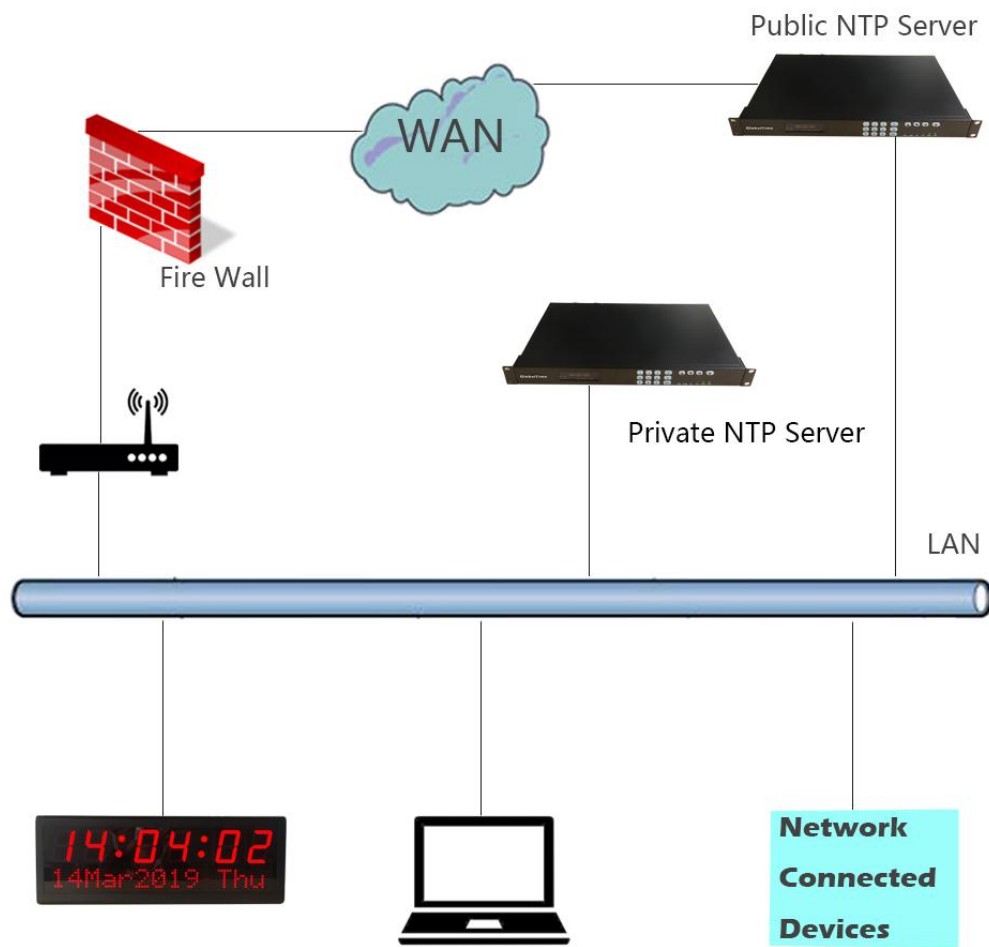




GlobalTime Electronic Co., Ltd

Brochure of NTP Server





GTT100



GTT200



GTT400

Features

- Stratum 1 operation via GPS/ BeiDou/ GLONASS satellites
- One/ two/ four standard GbE ports, all with patented NTP hardware timestamping
- Security-hardened NTP Reflector™ with firewall protection
- Web-based management with high-security cipher suite
- Exceptional time accuracy to UTC
- Extended environmental specifications
- IPv4 on all ports
- Rubidium atomic clock or OCXO oscillator upgrades
- Single power supply or dual power supply option
- Can be set as a slave time server to synchronize with host time server
- One 10M/ 100M/ 1000M adaptive network interface
- NTP Reflector option: 20000 NTP client mode three requests per second
- TOD/1PPS/10MHz out
- MTBF: 90000 Hours

Applications

- Synchronizes hundreds of thousands of NTP clients
- Security-hardened for peace-of-mind time service operations
- Multiple GbE NTP ports for easy network configuration and adaptation
- Best-in-class time accuracy for improved log file timestamp precision and usability
- Very reliable and easy-to-use network time appliance for modern networks and business operations

Network Protocols

RFC 1119 1305 NTP v2/v3/v4

RFC 1769 2030 SNTP v2/v3/v4

TIME

DAYTIME

SNMP v1/v2/v3

SSH

HTTPS

FTP

Mechanical/Environmental

- Size: 44cm x 28.6cm x 4.5cm, 1U rack mount, including BNCs
- Power: 10W, 110-230V AC
- Operating temperature: -10°C~65°C
- Storage temperature: -40°C~85°C
- Operational humidity: 0~90%, non-condensing, IEC 60068-2-78Cb, IEC 60068-2-30Db

Certifications

CE FCC RoHS ISO9001

Comparison Chart of NTP Server

Model		GTT100	GTT200	GTT400
Time Source		GPS/ GLONASS	GPS/ GLONASS	GPS/ GLONASS External Serial Port
Ethernet Ports		1	2	4
Built- in Clock		Rubidium/ oscillator	Rubidium/ oscillator	Rubidium/ oscillator
Terminal Support		60000	60000	60000
Keyboard		Yes	Yes	Yes
Protocol Support	SNMP	Yes	Yes	Yes
	HTTPS	Yes	Yes	Yes
	TIME	Yes	Yes	Yes
	DAYTIME	Yes	Yes	Yes
Options	TOD 1PPS 10MHz	Yes	Yes	Yes
	IRG-B	Yes	Yes	Yes
Heartbeat Detection		No	Yes	Yes

Specific Performance Index of the Server

GPS/BeiDou receiver

36 channel GPS receiver

Support GPS/ BeiDou frequency band

Cold-start time: 50 seconds

Hot-start time: 2 seconds

Sensitivity: -162dBm

1PPS accuracy: 15ns (1 sigma)

*depend on the location of the antenna

Timing performance

Server Time Level: Stratum 1

Server time precision: 1ms

Precision of client time: 10ms

Timing capacity: >1000 times per second

Oscillator Aging (yearly)

OCXO: 1E-7

Rb: 1E-9

We reserve the right to make changes at any time.

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