

# GTT-030



## Key features:

- Synchronization options: GPS, GLONASS (optional)
- Adopt RFC1119/1305 NTP protocol (Network Time Protocol) to transfer time
- RFC1769/2030 SNTP protocol (Simple Network Time Protocol) support
- Different client programs support: Windows 98/2000/NT/XP, Linux, Unix, etc
- 10M/100M adaptive network interface
- 20,000 terminals support (Terminal 1 minute sync time)

## Performance

- Server Time Level: Stratum 1
- Server time precision: 1ms
- Precision of client time: 10ms
- Timing capacity: >20,000 (Terminal synchronization: 1 time per minute)
- MTBF: > 90,000 hours

## Network protocol support

- ✓ RFC 1119/1305 NTP v2/v3/v4
- ✓ RFC 1769/2030 SNTP v2/v3/v4
- ✓ 10M/100M adaptive EthernetU
- ✓ SSH
- ✓ FTP
- ✓ DHCP

## NTP Time Server GTT030



## Power supply and the environment:

- Power supply: 10W, 110 ~ 264V AC
- Temperature: 0 ~ 50 °C
- Relative humidity: 0 ~ 90%

## Installation:

1U standard rack mount

CE/RoHS certified

# GTT-100



## Key features

- Range of synchronization options: GPS, GLONASS (optional), or external serial time source
- Can be set as slave time server to synchronize with host time server.
- 10M/100M adaptive network interface.
- Supports 60,000 terminals (sync every minute at terminal).
- Crystal or Rubidium atomic clock built in,
- keyboard for setting
- TOD/1PPS/10MHz output support.
- Supports HTTPS, can be managed through logging on Web.

## Certifications

- ✓ FCC/CE/RoHS

## Timing Performance:

- Server Level: Stratum 1
- Time Precision of Server: <1ms
- Time Precision of Client : <10ms
- Timing Capacity: >20,000
- MTBF: >90,000 hours

## Protocols Support

- ✓ RFC 1119/1305 NTP v2/v3/v4
- ✓ RFC 1769/2030 SNTP v2/v3/v4
- ✓ TIME/DAYTIME
- ✓ SNMPv1/v2/v3/v4
- ✓ SSH
- ✓ HTTPS
- ✓ FTP
- ✓ DHCP

## Power Supply and Environment

- 10W, 110~264VAC or -48VDC, or Dual-power Supply
- Temperature: 0~50°C
- Relative Humidity: 0~90% (non-condensing)

Installation standard 1U rack mount



# GTT-200



## Key features

- Range of synchronization options:GPS, GLONASS (optional), or external serial time source
- Can be set as slave time server to synchronize with host time server.
- Two 10M/100M adaptive network interfaces.
- Supports 60,000 terminals(sync every minute at terminal).
- Crystal or Rubidium atomic clock built in,
- keyboard for setting
- TOD/1PPS/10MHz output support.
- Supports HTTPS, can be managed through logging on Web.

## Certifications

- ✓ FCC/CE/RoHS

Installation: standard 1U rack mount



## Timing performance

- Server Time Level: Stratum 1
- Server time precision:< 1ms
- Precision of client time: <10ms
- Timing capacity: >1000 times per second
- MTBF:> 90,000 hours

## Network protocol support

- ✓ RFC 1119/1305 NTP v2/v3/v4
- ✓ RFC 1769/2030 SNTP v2/v3/v4
- ✓ TIME
- ✓ DAYTIME
- ✓ 10M/100M adaptive Ethernet
- ✓ SNMPv1/v2/v3
- ✓ SSH
- ✓ HTTPS
- ✓ FTP
- ✓ DHCP

## Power supply and the environment:

- Power supply: 10W, 110 - 264VAC(-48V DC or dual supply)
- Temperature: 0 - 50 °C
- Relative humidity: 0 -90%(non-condensing)

# GTT-400



## Key Features:

- Range of synchronization options:GPS, GLONASS (optional), or external serial time source
- Four 10M/100M adaptive network interfaces.
- Response capability: >1000times per second.
- Crystal or Rubidium atomic clock built in,
- keyboard for setting
- IRIG input and output, and 1PPS input and output (optional)
- TOD/1PPS/10MHz output support.
- Supports HTTPS, can be managed through logging on Web.
- Interlocking between two servers. Two servers can conduct heartbeat detection and serve as backup for each other, which increases the reliability of time transmission.

## Certifications

- ✓ FCC/CE/RoHS

## Timing performance

- Server Time Level: Stratum 1
- Server time precision: <1ms
- Precision of client time: <10ms
- Timing capacity: >1000 times per second
- MTBF:> 90,000 hours

## Network protocol support

- ✓ RFC 1119/1305 NTP v2/v3/v4
- ✓ RFC 1769/2030 SNTP v2/v3/v4
- ✓ TIME
- ✓ DAYTIME
- ✓ 10M/100M adaptive Ethernet
- ✓ SNMPv1/v2/v3
- ✓ SSH
- ✓ HTTPS
- ✓ FTP
- ✓ DHCP

## Power supply and the environment:

- Power supply: 10W, 110 - 264VAC(-48V DC or dual supply)
- Temperature: 0 - 50 °C
- Relative humidity: 0 -90%(non-condensing)

Installation: standard 1U rack mount





# Comparison Chart

Model		GTT030	GTT100	GTT200	GTT400
Time Source		GPS/GLONASS	GPS/GLONASS	GPS/GLONASS	GPS/GLONASS External Serial Port
10M/100M Adaptive Interface		1	1	2	4
Built-in Clock		No	Rubidium/Crystal	Rubidium/Crystal	Rubidium/Crystal
Terminal Support		20000	60000	60000	60000
Keyboard		No	Yes	Yes	Yes
Protocol Support	SNMP	No	Yes	Yes	Yes
	HTTPS	No	Yes	Yes	Yes
	TIME	No	Yes	Yes	Yes
	DAYTIME	No	Yes	Yes	Yes
Options	TOD/1pps/10MHz	No	Yes	Yes	Yes
	IRIG-B	No	No	No	Yes
Heartbeat Detection		No	No	Yes	Yes