GFClock Yasapersada

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Network Time Server- NTP Time Server

for GPS Beidou GLONASS Galileo QZSS - GF-NTP-MINI

GF-NTP-MINI NTP Server Desktop Network Time Server w/ One Ethernet Port
for GPS Beidou GLONASS QZSS

Description:

NTP Server is a time server based on the NTP (v2, v3, v4) /SNTP protocol. It obtains standard UTC time information from the GNSS satellite receiver and transmits this information on the network. Devices in the network that require time signals, such as computers and controllers, can synchronize with standard clock signals to realize the network timing function. Standard clock information is transmitted via TCP/IP network, supporting point-to-point and broadcast transmission modes.

It is simple to use, only need to connect to GNSS satellite antenna, the entire network can be time synchronized. It is small and easy to install. It boasts ultra-low power consumption. Just plug and play.

The product has been tested by a large number of practical applications in the market, and is stable and reliable to use.

Features:

- Up to 6000 visits per second
- WebUI interface, convenient and quick management
- Local area network synchronization timing accuracy: 0.5-2ms
- Internally integrated high-precision timing GNSS satellite receiver
- Support GPS, Beidou, GLONASS, QZSS
- NTP v2 (RFC 1119), NTP v3 (RFC 1305), NTP v4 (RFC5905)
- SNTP v3 (RFC 1769), SNTP v4 (RFC 2030)
- Support MD5 information verification
- Support SERVER and BROADCAST working modes
- Ethernet port supports 10/100M, full-duplex, half-duplex, and automatic-negotiation mechanism
- Support for user-defined MAC address
- NMEA0183 transmits via TCP protocol
- Compact structure, easy to install
- Power consumption 1W
- Industrial working temperature range

NTP Parameters:

- Interface: 10/100 Base-Tx
- Interface Standard: Compliance with IEEE-802.3u Standard
- Interface Rate: 10/100M Adaptive
- Interface Connector: RJ-45
- NTP LAN Timing Accuracy: 0.5-2ms
- Support Protocols: NTPv2, NTPv3, NTPv4 and SNTP
- MD5 Information Verification: Yes

Receiver Parameters:

- Interface: 10/100 Base-Tx
- Support Satellites:
  GPS L1
  Beidou B1
  GLONASSL1
  QZSS L1
- Horizontal Positioning Accuracy:
  <2.5m/8.2ft CEP50 (autonomous)
  <2m/6.6ft CEP50 (SBAS)

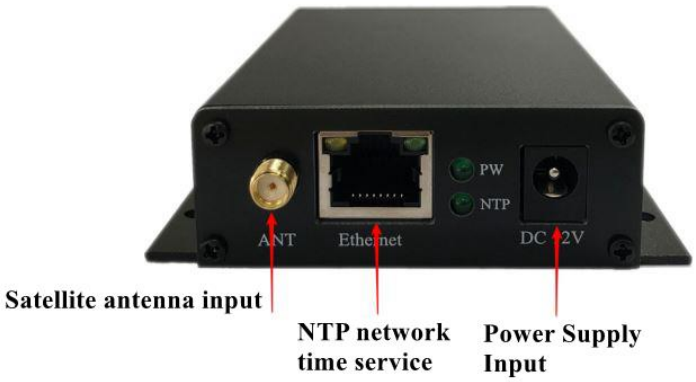
- Vertical Positioning Accuracy:
  <5m/16.4ft CEP50 (autonomous)
  <3m/9.8ft CEP50 (SBAS)
- First Positioning Time:
  Reacquisition: <1s 50%
  Hot Start: <1s 50%
  Warm Start: <33s 50%
  Cold Start: <35s 50%
- Sensitivity:
  Tracking: -165 dBm
  Acquisition: -148 dBm
- Time Synchronization Accuracy: 100ns
- Dynamic:
  Acceleration 4g
  Speed: 515m/s

Electrical Parameters:

- Working Voltage: DC 6-24V
- Operating Current: 80mA at 12V
- GNSS Antenna Voltage: 3.3V
- Ethernet Port: RJ45, 10/100Mbps, cross-connection adaptive
- Encapsulation Way: RJ45
- Reliability Level: 2KV Electromagnetic Isolation
- Working Temperature: -20 to 45℃
- Storage Temperature: -45 to 105℃
- Working Humidity: 5% to 95% RH (No condensation)
- Storage Humidity: 5% to 95% RH (No condensation)

Package Included:

- 1 x Set of NTP Time Server includes GPS Antenna 10meter coaxial cable, 12V/DC Power Supply



Port Introduction:

- ANT: Satellite antenna input. SMA connector, 5V feed
- Ethernet: NTP network time service. RJ45 connector, 10/100M adaptive

- DC 12V: Socket. 6-24V DC input, default 12V
- PW: Power supply indicator
- NTP: NTP working indicator. Under normal circumstances, the indicator light is always on. When there is no NTP signal, the indicator light is off all the time

Product Size:

- Product size 80 x 23.8 x 90mm/3.1 x 0.9 x 3.5"

Note:

- Default IP: 192.168.0.100
- It does not support IE browser