

Network Time Server- NTP Time Server

for GPS and Beidou - MA-802-G



MA-802-G NTP Server- Network Time Server
for GPS L1/Beidou B1

Description:

MA-802G is a stratum 1 NTP server with an integrated GNSS receiver can acquire standard time by GPS, Beidou, realize the synchronization of computer, server and equipment that support NTP standard in local area network. Time server have been widely applied in occasions of inspection, legislation, transportation, research and school.

NTP server provide standard NTP service externally, all hardware (server, workstation and hardware wanting time) supporting protocol of NTP v1.v2.v3, SNTP V3 V4 can capture standard time through the NTP server, hereafter are set-up methods of NTP in common systems.

The NTP server is in a 19-inch 1U chassis with rack mount ears for installation.

Network Protocol:

- NTP v1.v2.v3 (RFC1119&1305) SNTP (RFC2030) (RFC1321) DHCP (RFC2131) HTTP IPV4

Server Performance:

- GPS clock reference mode, first-class network time server, synchronization accuracy $1\mu\text{s}$.
- User terminal synchronization timing accuracy: 1-50ms (typical value of LAN).
- User capacity: can support tens of thousands of clients.
- NTP request volume: 8000-10000 times/second.

Support System and Platforms:

- Support all NTP protocol servers, PC, embedded devices, etc.

Signal Receiving Parameters:

- 50 channel timing GPS receiver.
- UTC synchronization accuracy 30ns (RMS), support single star timing window mode.
- Receive L1, C/A code signal-1575.42MHz.
- Tracking and locking sensitivity up to -162dBm.



Front Panel

- Configure LCD display, which can display IP address, year, month, day, hour, minute, second, number of locked satellites, time locked state, locked time source, working state.

**Back Panel:**

- GPS antenna entry: BNC, 1 channel, L1, 1575.42MHz
- Network port: RJ-45, 1 channel, 10/100M adaptive Ethernet interface 1 reset button, 1 factory reset button
- Customizable: serial port, multiple network ports, PPS output

Physical Parameters:

- Size: 480 × 44 × 180mm
- Power supply: AC 220V ±20%
- Working temperature: -10°C~+55°C (host); -40°C~+75°C (antenna)
- Storage temperature: -45°C~+85°C
- Humidity: 95% (no condensation)
- Power consumption: 5W

Packing List:

- 1 x NTP Timer Server
- 1 x 30M Feeder Antenna
- 1 x Antenna Magnetic Mount
- 1 x Power Cable
- 1 x Manual



Product Size:

- Product size: 1U rackmount

Note:

- Default IP: 192.168.0.30