

BRG-NTP-V2 Time Server

Stratum 1 GPS to NTP Time Server



Features

- Receive time information from GPS satellites and make available using the Network Time Protocol (NTP).
- RFC1119/1305/5905 NTP Protocol to serve time (Network Time Protocol).
- RFC1769/2030/4330 SNTP Protocol (Simple Network Time Protocol).
- Server Time Level: Stratum 1.
- Server Time Precision: Better than 5mS + network jitter.
- 10M/100M auto sensing network interface.
- Unit is capable of serving 350+ requests per second, or 300,000 devices updating every 15 minutes.
- Supports IPv4 and IPv6.
- Compliant with FCC Part 15B and CE marked for radiated emissions and is a lead free product.
- Power Requirements: +5V DC at less than 4W continuous.
- Environmental: Commercial temperature range, -40 to 70C, 95% humidity non-condensing.
- Networking: Static or DHCP IPv4 addressing. Standard browser interface for setup.
- Serial port supports both RS-232C levels and TTL (+3.3V) NMEA and 1PPS signal at TTL levels.
- Rear Connections: Power, Cat5 Ethernet, Serial, and GPS antenna via SMA connection.
- Supports +3.3V and 5V active GPS antennas with internal jumper setting.

Technical Specifications

Antenna

Antenna Type: Amplified Indoor/Outdoor, swivel mount
Gain: 30dB 5dB
Coverage: 360 Azimuth, 0-90 Elevation
Antenna Cable: 100 ft. standard or length as need optional

GPS Receiver

Type: 22 channel low power receiver
Sensitivity: -165dBm
GPS Time Precision: +/- 10ns RMS jitter
Antenna Connection: 1575.42MHz (L1 Band)

User Interface

Display: 1X10 LED Multi-Color Display
Status: GPS Lock
Buttons: Mode, Up, Down, Control

Power Adapter

Standard: 85 to 260VAC to 5VDC, (47Hz-63Hz)

Environmental

Operating Temperature: -40 to +70C

Pulse Signal

Reference Pulse: 1 PPS, 1uS width, 3.3V

Time Signals

RS232: NMEA Information
Connectors: RJ45, DB9
Protocol: NTP/SNTP
Ethernet Port: 1X 10/100Mbps

Mechanical

Enclosure: 1U, 19 inch rack
Size: 1.78in (45)H x 19in(482)W x 10.7in(272)D
Weight: 11 lbs. (5kg)



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