

BRG-NTP-V2 Time Server

Stratum 1 GPS / NTP / IRIG-B Time Server



Features

- GPS Satellite Time reference for NTP and IRIG-B Time Systems
- Provided OCXO stability without GPS input
- Field configurable Pulse (Event) outputs
- 10/100/1000 MBps NTP, TPT Ethernet Time outputs
- Provides IRIG-B AM and TTL (PWM) time signals
- Adjustable Time Zone
- Sleek and small 1U rack mountable
- GPS antenna cable length available as needed
- 2 x 20 LCD screen and Status LEDs
- Alarm contact provided for annunciation
- All weather GPS indoor/outdoor amplified antenna with 100 ft. cable with mount

Applications

- Master Network Time Server
- Disturbance Recorders
- Electronic tri-vector meters
- Distribution Automation System
- Numeric Relays
- Drive Slave display clocks
- Servers and EMS and Switchyard
- Electronics Instruments
- Standalone computers
- DCS (SCADA) system
- IRIG-B master clock

Technical Specifications

Antenna

| | |
|-------------------|---|
| Antenna Type: | Active/Amplified Indoor/Outdoor, swivel mount |
| Accuracy: | ± 10 milliseconds |
| Gain: | 30dB ± 5dB |
| Coverage: | 360° Azimuth, 0-90° Elevation |
| Environmental: | All weather water proof |
| Antenna Cable: | 23 ft |
| Additional Cable: | 100 ft. standard or length as need optional |

GPS Receiver:

| | |
|---------------------|---|
| Configuration: | Single |
| Outputs: | PPS, Time & Position |
| Satellite Tracking: | 12 Channels, C/A Code |
| Acquisition Time: | Cold >70s, Warm <70s, Hot <5s Re acquisition <1s |

User Interface

| | |
|-----------------|--|
| LCD Display: | 2 x 20 Alphanumeric |
| Status LEDs: | GPS, PPS, NTP, & Power |
| Keys: | Up, Down, & Enter |
| Alarm Contacts: | PFC contact for GPS Fail & Power Fail φ |

Power Supply

| | |
|--------------------|--------------------------------------|
| Standard (AC/DC): | 85 to 260V , (47Hz to 63 Hz) 90-370V |
| Custom DC: | 36-72 VDC (48V), 18-36VDC (24V) |
| Power Consumption: | < 15 W |

Environmental

| | |
|-----------------|--------------------------|
| Operating Temp: | 32° to 122°F |
| Humidity: | 10 to 95% Non Condensing |

Pulse Signals

| | |
|-------------|------------------|
| Accuracy: | 20 ns RMS |
| Ref. Pulse: | 1 x Isolated TTL |

Serial Time Signals:

| | |
|------------------|--------------------|
| RS 485 & RS 232: | Broadcast mode |
| Connectors: | Euroterminal & DB9 |
| Protocol: | NTP / SNTP |
| Ethernet Port: | 1 x 10/100 Mbps |

Time Code Signals

| | |
|------------|-------------|
| IRIG-B: | AM & PWM |
| Connector: | BNC, 75 ohm |

Mechanical

| | |
|------------|------------------------|
| Enclosure: | 1U, 19" rack mountable |
| Size: | 1.78"H x 19"W x 10.7"D |
| Weight: | < 11lbs. |
| Class: | IP20 |



BRG Precision Products, Inc.
600 N River St
Derby, KS 67037
800-295-0220 • 316-788-2000
sales@brgproducts.com
www.BRGPrecision.com

