GPS IRIG-B/NTP Clock

**BE-GPS-NB012**

**Introduction**

The BE-GPS-NB012 (IRIG-B+1 or 2 port of NTP/SNTP output) Synchronized clock provides a high precision time directly to TCP/IP networks using NTP(Network Time Protocol) and devices with IRIG-B input. It synchronizes time of any NTP clients running on remote PC’s. It supports both NTP and SNTP clients for more of current popular operating systems including: Microsoft Windows 95/98/Me/NT/2K/XP, Linux, Free BSD, IBM AIX and other UNIX family systems. It can synchronize simultaneously thousands of servers, workstations and routers.

**Features**

The BE-GPS-NB012 is high quality professional time server for computing, telecom, military, power grid, traffic systems and other science purposes. It has been manufactured with no mechanical parts as coolers or hard disk. All cooling system has been resolved on natural air circulation outgoing via metal case of unit.

**Technology**

NTP : supports all versions of NTP, SNTP including latest release 4.1.1 supporting modes: CLIENT, SERVER, BROADCAST, MULTICAST. Authentication: MD5 with manual/automatic key generation.

SNTP : supports all versions of Simple Network Time Protocol


IRIG-B: 1 channels of terminal block or more. 2 channels of BNC ports(IRIG-B,B002)

The following time and other output ports are only for options:

- RS-485: 1 channels(serial code) or more, terminal block port
- RS-232: 1 channel of DB9 connector
- PPS: 2 channels 1 PPS(TTL/ active optical isolation and passive) PPM: 1 channel 1PPM
- Alarm dry contact output: 1 channel. Support dual redundant power supplies

Contact: sales@bueno-electric.com
Fax: +86-25-51816989
Other technical Specs:

LAN: 10/100 Based Tx: RJ-45 connector IEEE 802.3 - shielded data line (2 ports as option)
Chipset: Motorola receiver (8) channel with RAIM
Antenna: BNC1.5GHz / 8m + active converter (IP65 to UTP Cat5, cable 200m. (max. 500m),
Receiver: input frequency 1575.42MHZ (L1).
Input: 110-240V AC/DC, DC48V, DC24V, DC12V
Outputs: +5V / 5A, +12V / 0.6A, -12V / 0.5A
Fuse: 1 electronic
Total Load: Less than 15 Watt
GPS Accuracy: better than ±100 nsec after synchronization of first 1 hour better than ±1 µsec
during the first hour of operation
NTP Accuracy: 1~10 msec (with nanosecond kernel)
Housing: Metal desktop case, 1U
Front Panel: 43mm high / 483mm wide
Protection: rating IP20
LCD Display: 6 character + 8 character. Can display local date & time, longitude, latitude, altitude, time zone code, satellite number locked.
Temperature: -20~75°C. Wide temperature supported.
Humidity: 85% max
Housing Color: Silver Grey
Standard Antenna with Cable: 30m length (Water-proof & Surge-protection)
Warranty: 5 years.

High Quality and Cost-Effective Choice!