GPS-BGT: GPS Satellite Receiver in rack mount enclosure

GPS clock appliance in rack mount enclosure for customized time and frequency synchronization systems.

Key Features

- 2 time trigger inputs
- 2 RS-232 interfaces
- Integrated GPS satellite receiver
- Frequency synthesizer
- Antenna-/converter unit (included)

Description

The GPS satellite clock in 19" enclosure is the base for all our GPS synchronized systems for 3U and more.
The GPS-BGT consists of a power supply (input voltage determined by the customer, outputs as needed) and the GPS reference clock and can be customized with different modules and output drivers to fulfill your needs.

For example the following outputs are possible:

IRIG Time Code

IRIG, IEEE1344, AFNOR NFS 87-500

 * DC Level Shift (DCLS) or modulated (AM)

 * via BNC, DSUB(RS422), DFK or Fiber Optic (DCLS)

Pulses

 * pulse per second(PPS), pulse per minute (PPM), DCF modulation marks (DCF_MARK), pulse per hour (PPH), free programmable pulses

 * as TTL, RS232, via Optokoppler, or Relays (PhotoMos)

 * via DSUB, BNC, DFK

Frequencies

fixed frequencies, frequency synthesizer from 1Hz-10MHz, E1, T1 (telcom frequencies)

 * as sine wave, sine wave with low phase noise or square pulse frequency

 * via BNC or Twinax

Serial Interfaces

 * RS232, RS422, current loop (20mA)
 * via DSUB9, DSUB25, Fiber Optic ST

Network Interfaces

 * NTP, PTP (IEEE 1588), X-Port for configuration and control (SNMP)

 * via RJ-45, Fiber Optic ST, Fiber Optic SC

Please tell us the number, format and connector of your desired configuration and we will make you an appropriate offer.

Characteristics

Receiver Type	12 channel GPS C/A-code receiver
Type of Antenna	Included [1]GPSANTv2 antenna with innovative downconverter technology that allows transmission routes of up to 300 m using RG58 cable, 700 m using RG213 cable, and 1100 m using H2010 Ultraflex cable
Interface	Two independent serial RS-232-interfaces, menu configurable
Serial Time String Output	Baud Rates: 300, 600, 1200, 2400, 4800, 9600, 19200 Baud Framing: 7E1, 7E2, 7N2, 7O1, 7O2, 8E1, 8N1, 8N2, 8O1 Time String Formats: [2]Meinberg Standard Time String , SAT, Uni Erlangen (NTP), SPA, Sysplex, RACAL, NMEA0183 (RMC,GGA,ZDA), Meinberg GPS, COMPUTIME, ION, [3]Capture String
Time Trigger Inputs	Resolution: 100 nsec, triggered by falling TTL slope Time of trigger event readable via RS232-interface
Alarm output	Synchronous state of the module, relay output (changeover contact)
Antenna Connector	Type-N connector
Form Factor	Rackmount 3U chassis for standard 19" racks
Physical Dimensions	485mm x 132mm x 290mm

Supported Temperature	Operational: 0 - 50 °C (32 - 122 °F) Storage: -20 - 70 °C (-4 - 158 °F)
Supported Humidity	Max. 85 % (non-condensing) at 40 °C
Contents of Shipment	GPS antenna/converter unit and 20 m Cable RG58
Warranty	Three-year warranty
Options	Additional output signals generated by the internal [4]GPS receiver
RoHS Status of Product	This product is fully RoHS-compliant.
WEEE Status of Product	This product is handled as a B2B (Business to Business) category product. To ensure that the product is disposed of in a WEEE-compliant fashion, it can be returned to the manufacturer. Any transportation expenses for returning this product (at end-of-life) must be covered by the end user, while Meinberg will bear the costs for the waste disposal itself.

Manual

There is no online manual available for this product.: [5]Contact us

Links:

[1] https://www.meinbergglobal.com/english/products/gps-antenna-converter.htm
[2] https://www.meinbergglobal.com/english/specs/timestr.htm
[3] https://www.meinbergglobal.com/english/specs/capstr.htm
[4] https://www.meinbergglobal.com/english/products/gps-clock-eurocard.htm
[5] mailto:info@meinberg.de