

Topcon is proud to announce the next generation of modular GPS+ receivers, the new GB-1000 and GB-500. Continuing to lead the precision GPS industry with the most extensive lineup of high end receivers, Topcon's new receivers bring advanced design to meet your positioning needs of today with built-in flexibility to meet the expanding needs of the future!

> The GB-1000 and GB-500 provide advanced Topcon dual-frequency, dual-constellation, GPS+ receiver board design inside a rugged, compact housing.

Topcon Positioning Systems, through our advanced Paradigm[™] chip technology, is the first manufacturer to

offer complete customization of the receiver you purchase. Following the tradition of other Topcon GPS+ receivers, this new model also provides complete user customization and upgradeability.

Through the use of Options Authorization Files (OAF's), a customer can select from a wide variety of options to activate in the receiver to meet their exact needs. No cookie-cutter, one receiver fits all approach, like the other precision GPS manufacturers. Topcon believes that a GPS receiver system should fit the exact needs of the customer, and the customer need only pay for the receiver options and functionality they wish to use. Through computer code activation, you decide what receiver design options you need. Then, by simply activating new options as you need them with additional codes, the system can be upgraded right from your desk!

The GB-1000 offers a built in LCD display and operation panel. This display and interface is ideal for checking satellite and receiver status, initializing RTK base operation, or managing static surveying operations. The GB-1000 also provides a Compact-Flash memory card slot and advanced

communication support. With USB, serial, and Ethernet connections, nearly all communication links are supported including LAN, WAN, and Internet connectivity.

The GB-500 provides a simple MINTER display with LEDs providing satellite tracking, battery, and recording status. Both receivers hold two removable Li-Ion handy-cam batteries that you can hot-swap for constant operation, or use optional external power.

In the fast-paced world of GPS+ receiver technology, you need to rely on equipment that can grow with your business. With over 70 years of expertise in the precision measuring industry, Topcon designs and builds technology to meet the changing demands of our customers. Contact your local Topcon Distributor for more information or to arrange a demo, or you can visit us at www.topcon.com.

> See for yourself why more and more professionals are choosing Topcon GPS+ technology over all the rest!

Specifications

Tracking Specifications

Tracking Channels, standard Tracking Channels, optional Signals Tracked, standard Measurement Modes

Performance Specifications*

Static, Rapid Static

RTK

Physical Specifications:

Dimensions Size

Weight

Antenna Tripod Clip Modem

Power Specifications:

Power Supply

Operating time **Battery Charger**

Environmental Specifications:

Operating Temperature Waterproof Rating Humidity

I/O - Panel Specifications:

Ports

Serial Speed Optional I/O signals/ports

Control Panel:

User Interface

Buttons

Memory & Recording:

Raw Data Memory

Additional Memory Logging Intervals

Ambiguity Initialization Communication Formats Multi Base RTK

40 L1 GPS (20 GPS L1+L2 on Cinderella Days) 20 GPS L1+L2, GLONASS 20 L1/L2, C/A, P-Code, Full Cycle Carrier Static/Rapid Static, RTK Kinematic (Continuous mode and Stop & Go mode)

H: 3mm + 0.5ppm (x base line length)

V: 5mm + 0.5ppm (x base line length)

H: 10mm + 1ppm V: 15mm + 1ppm

150 x 257 x 63 (mm) 1.0 kg (without batteries) 1.2 kg (with 2 internal batteries)

External

Standard Attachment Optional External

Removable Li-Ion Internal (hot swappable)

Optional External

7 hours (2x Internal Batteries) Integrated and External

-20C° ~ +55C° / -30F° ~ +60F°

95%

GB-1000

3 Serial Ports 3 Serial Ports 1 USB 1 USB 1 Ethernet (10BASE-T) 1 Ext. Power 1 Antenna

1 Ext Power

1 Antenna Max 460,800

1-PPS, 1-Event 1-PPS, 1-Event

GR-1000

160x64 dot LCD 20 Char x 4 Line 5 LED (Satellite Status, 2 Battery Status, Key Lock Status and

Max 460,800

GB-500

Recording Status) 3 Buttons

9 Buttons (Power, 4-Direction Cursor (Power, Record, Lock)

ESC, ENTER, MENU, 4-Function keys)

Internal Memory Selectable: 4MB to 1GB Compact Flash Card Slot – Type 2 Up to 20 times per second (20 Hz)

CMR+, CMR, RTCM 2.3, TPS

Supported

*GPS+ Performance and accuracy specifications are dependent on conditions; assume a quality GPS/GLONASS constellation above 15° in elevation and operation of the receiver in adherence with procedures described in the TPS receiver operation manuals. In areas susceptible to high levels of multipath, during periods of high DOP, and during periods of ionospheric disturbance, performance may be degraded.





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