

Provided by Xpert Survey Equipment
Click [Topcon Hiper Plus](#) for Product Info and Updated Pricing



PRECISION GPS+

 **TOPCON**[®]



HiPer[®]

Wireless, integrated GPS+ receiver system



ISO 9001:2000
FM 68448

If you are looking to add the most advanced GPS technology to your business, look no further than the new Topcon HiPer+.



From the extremely successful HiPer series of compact, integrated GPS receivers, the new HiPer+ continues to offer the advantages of a small, lightweight design, and the power of dual-constellation satellite tracking with the added features of wireless communication and an advanced center-mount UHF antenna design that boosts RTK performance and distance, without any degradation of GPS signals.

That's why at Topcon, we are proud to boast that we are the new leader in precision GPS systems and technology! A pretty big boast, but one that we back up with the broadest, most advanced product lineup in the industry. The HiPer+ takes it's place along side 8 other precision dual-frequency receiver designs. We feel that in order to best serve our customer's needs, just one or two receiver options is not enough. Topcon prides itself on being able to customize a GPS solution that best fits your needs, instead of forcing you to conform to only one or two systems.

A member of Topcon's award winning line of GPS technology, the HiPer+ already boasts some impressive technology firsts:

- World's First wireless dual-constellation GPS System
- World's First advanced performance center-mount RTK UHF antenna
- World's First GPS system capable of 1Gb internal data storage
- World's First integrated 40 channel dual frequency receiver with integrated Bluetooth™ Technology
- World's First GPS System with advanced Co-Op tracking for unsurpassed under-canopy performance

Only from Topcon, the World leader in precision positioning technology!

Just as with the other models in the HiPer family of receivers, the HiPer+ offers an integrated design that includes a GPS receiver, antenna, power supply, and RTK radio link; all in a compact, waterproof, durable housing that is designed to take the bumps and bruises of the field.



The HiPer+ also has the option of dual-constellation (GPS + Glonass) tracking which provides 40% more satellite coverage than GPS alone. This added advantage virtually eliminates downtime due to poor satellite coverage, or in those difficult environments where satellite obstructions knock out GPS only systems.

So when considering your precision GPS options, take a good look at the new HiPer+. We're confident you'll see for yourself what everyone's talking about.



7400 National Dr. • Livermore, CA 94551
Phone: (925) 245-8300

Patents Pending

©2004 Topcon Corporation All rights reserved.
P/N: 7010-0572 Rev. C Printed in U.S.A. 10/04



FC-100
Rugged Window CE™
Field Computer



GB-1000
Modular GPS+
Base Receiver



Description	40 channel integrated GPS+ receiver/antenna with MINTER interface.
Tracking Specifications	Tracking Channels, standard 40 L1 GPS (20 GPS L1+L2 on C/A and L2) (C/A) Tracking Channels, optional 20 GPS L1+L2 (GD), GPS L1 + GLONASS (GG), 20 GPS L1+L2+GLONASS (GGD)
Signals Tracked	L1/L2 C/A and P Code & Carrier and GLONASS
Performance Specifications	
Static, Rapid Static	H: 3mm + 0.5ppm V: 5mm + 0.5ppm
RTK	H: 10mm + 1ppm V: 15mm + 1ppm
Power Specifications	
Battery	Internal Lithium-Ion batteries plus 1 external power port for 14+ hours of operation
External power input	6 to 28 volts DC
Power consumption	Less than 4.2 watts
GPS+ Antenna Specifications	
GPS / GLONASS Antenna	Integrated
Antenna Type	Center-mount UHF Antenna
Ground Plane	Antenna on a flat ground plane
Radio Specifications	
UHF Radio Modem	Internal Rx or External Tx/Rx
Base Power Output	0.5W/2.0W/35W
CDPD & GSM Modem	Optional Accessory
Wireless communication*	
Communication	Bluetooth™ version 1.1 comp.
I/O	
Communication Ports	4x serial (RS232)
Other I/O Signals	1pps, Event Marker
Status Indicator	4x3-color LED's, two-function keys (MINTER)
Control & Display Unit	External: FC-1000, Ranger, or 3rd Party
Memory & Recording	
Internal Memory	Up to 128 MB
Data Update Rate	Up to 20 times per second (20Hz)
Data Type	Code & Carrier from L1 and L2, GPS & GLONASS
Data Input/Output	
Real time data outputs	RTCM SC104 ver. 2.1, 2.2, 2.3, 3.0, CMR, CMR+
ASCII Output	NMEA 0183 version 3.0
Other Outputs	TPS format
Output Rate	Up to 20 times per second (20Hz)
Environmental Specifications	
Enclosure	Aluminum extrusion, waterproof
Operating Temperature	-30°C to 60°C
Dimensions	W:159 x H:172 x D:88 mm / 6.25 x 6.75 x 3.5 in
Weight	1.65 kg / 3.64 lbs

*Bluetooth™ type approvals are country specific. Please contact your Topcon representative for more information.

Topcon sells GPS products into the precision markets only. Go to www.topcongps.com for details.

- 1 Specifications are subject to change without notice. Performance specifications assume a minimum of 6 GPS or 7 GPS/GLONASS satellites above 15 degrees in elevation and adherence to procedures recommended by TPS in the appropriate manuals. In areas of high multipath, during periods of high PDOP and during periods of high ionospheric activity, performance may be degraded. Robust checking procedures are highly recommended in areas of extreme multipath or under dense foliage.
- 2 Cinderella feature activates GGD reception at GPS midnight every other Tuesday for 24 hours.