HiPer®

Wireless, integrated GPS+ receiver system
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 its place alongside other Topcon GPS receivers, the HiPer+ continues to offer superior under-canopy performance.

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.

Description
40 channel integrated GPS+ receiver/antenna with MINTER interface.

Tracking Specifications
Tracking Channels, standard
40 L1 GPS (20 GPS L1+L2 on Cinderella2 days)
20 GPS L1-L2 + GLONASS (GGD)

Tracking Channels, optional
20 GPS L1-L2 (GD), GPS L1 + GLONASS (GG),
20 GPS L1-L2+GLONASS (GGD)

Signals Tracked
L1/L2 CA and P Code & Carrier and GLONASS

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
CPD & 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.

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.

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2 Cinderella feature activates GGD reception at GPS midnight every other Tuesday for 24 hours.