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 performance models in the HiPer family of 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.

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 Cinderella) a
Tracking Channels, optional 20 GPS L1+L2 (GD), GPS L1 + GLONASS (GG), 20 GPS L1+L2+GLONASS (GDD)
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 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 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.

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GB-1000     Modular GPS+ Base Receiver
FC-100     Rugged Window CE™ Field Computer

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