

HiPer Lite+

Completely Cable-free, Integrated GPS+ RTK System



**A 100% cable-free, fast setup
GPS+ RTK system**



- Super-fast and easy base station setup
- Cable-free rover works with Bluetooth[®] wireless technology equipped field controllers
- Integrated spread spectrum interference-free radio
- 40-channel dual-frequency GPS plus GLONASS availability
- Exclusive AMR and Co-op Tracking™ technology

Dual-Constellation! GPS + GLONASS!

Topcon has designed a complete, integrated RTK Base & Rover system that is completely cable free. No more cable to break, and no more wasted time of a difficult base receiver setup. That's why we call this system HiPer Lite+. Less equipment to carry into the field, and less to forget back at the office!



The secret to HiPer Lite+ is the advanced internal radio technology that has allowed Topcon to create an integrated system. The design incorporates a high performance 915 MHz Spread Spectrum radio that provides superior interference-free communications up to 1.5 miles on your job site.

But don't let the name HiPer Lite+ fool you. This compact little system still packs a powerful punch. HiPer Lite+ incorporates Topcon's advanced 40 channel dual-frequency GPS+ technology, the Paradigm™ Chip, and offers all the Topcon advances in tracking technology such as Co-Op™ tracking, Advanced Multipath Reduction (AMR).



A lot is changing in the World of precision GPS+ technology, and Topcon is proud to be leading the way with the most advanced, innovative systems available. With over 75 years of experience and leadership in the precision measuring industry, it should come as no surprise. So when considering your precision GPS+ options, take a good look at the HiPer Lite+. We're confident you'll see for yourself what everyone's talking about!



Topcon Positioning Systems, Inc.
7400 National Drive • Livermore, CA 94550
www.topconpositioning.com

Specifications subject to change without notice

©2009 Topcon Corporation All rights reserved. P/N: 7010-0659 Rev. E Printed in U.S.A. 4/09

Specifications

TRACKING SPECIFICATIONS

Tracking Channels, standard	40 L1 GPS (20 GPS L1+L2 on Cinderella days)
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 for up to 14+ hours of operation (10 hrs TX)
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 Spread Spectrum Antenna
Ground Plane	Antenna on a flat ground plane

RADIO SPECIFICATIONS

915 MHz SpSp Modem	Internal Tx/Rx
Power Output	1.0W/0.25W (selectable)

WIRELESS COMMUNICATION*

Communication	Bluetooth® version 1.1 comp.
---------------	------------------------------

I/O

Communication Ports	2x serial (RS232), USB
Other I/O Signals	1pps, Event Marker (optional)
Status Indicator	4x3-color LED's, two-function keys (MINTER)
Control & Display Unit	External Field Controller

MEMORY & RECORDING

Internal Memory	Up to 128 MB
Data Update Rate	Up to 20 times per second (20Hz)
Data Type	Code and Carrier from L1 and L2, GPS and 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 55°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.

Your local Authorized Topcon dealer is:

The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Topcon is under license. Other trademarks and trade names are those of their respective owners.