



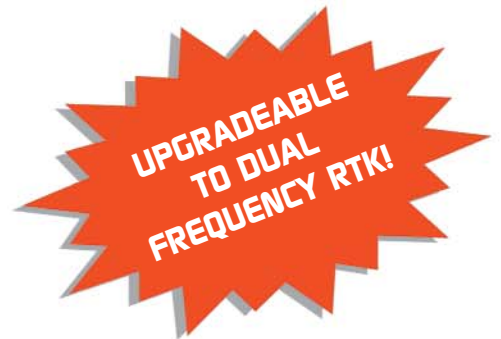
PRECISION GPS+

**TOPCON**®



# HiPer<sup>®</sup>-LI

Low cost, Single frequency GPS receiver



ISO 9001:2000  
FM 68448



**For basic, single frequency static control point surveying, Topcon is proud to announce the new HiPer-L1 GPS receiver and Topcon Tools post processing software.**

With a price tag to fit nearly every budget, the new HiPer-L1 system is the perfect configuration to get started with GPS. This small, light-weight system incorporates the GPS receiver, Li-Ion batteries, and precision antenna. Although the standard system is only single frequency, the Topcon Cinderella option comes standard with all of our systems. This option unlocks full dual frequency receiver capability every other Tuesday! All this at no additional charge, and completely transparent to the operator.

Unlike competitive low-end static GPS systems, Topcon doesn't leave you with a dead end equipment investment. The Topcon HiPer-L1 is easily upgradeable to full time dual-frequency L1+L2 with a simple computer code that you can load yourself. No need to send the system in for a lengthy repair. Should you decide to go to full dual-frequency RTK, you can also upgrade the HiPer-L1 with an internal PDL radio. Competitor's systems leave you stuck with a simple L1 only system.



HiPer-L1 provides significant advantages over competitive single frequency GPS systems:

- Completely upgradeable system without having to swap out hardware.
- Full dual frequency measurements standard on Cinderella days.
- Customizable system design with memory options up to 96Mb.
- 40 channel GPS receiver Technology
- Advanced Co-Op tracking for unsurpassed under-canopy performance

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

Topcon's new Topcon Tools software provides a powerful post processing solution with an intuitive user interface that's easy to learn and use. Impressive data automation routines take much of the hassle out of GPS processing and get you the right answer fast!

Graphical Windows™ based screens provide a map view of your project along with sortable tables of observation and vector information. Powerful data checking and editing is at your fingertips!

So when considering your single frequency GPS purchase, take a good look at the new HiPer-L1. We're confident you'll see for yourself what everyone's talking about!

**TOPCON**  
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**FC-100**  
Rugged Window CE™  
Field Computer



**GB-1000**  
Modular GPS+  
Base Receiver



### Description

40 channel GPS receiver/antenna with MINTER interface

### Tracking Specifications

Tracking Channels, standard	40 L1 GPS (20 GPS L1+L2 on Cinderella <sup>2</sup> days)
Tracking Channels, optional	20 GPS L1+L2
Signals Tracked	L1 Carrier, C/A
Measurement Mode	Static/Rapid Static Kinematic (Continuous mode and Stop & Go mode)

### Performance Specifications

Static, Rapid Static	H: 3mm + 0.5ppm V: 5mm + 0.5ppm
RTK	H: 10mm + 1ppm V: 15mm + 1ppm

### Physical Specifications

Dimensions	
Size	W:159 x D:172 x H:88(mm)
Weight	1.65kg
Enclosure	Aluminum
Antenna	Internal, Micro-strip, Zero center, Flat ground plane

### Power Specifications

Power Supply	Internal, optional external
Internal Battery	2 Li-ion, 3000 mAh , 7.4V
External Power Input	6 to 28 volts DC
Power Consumption	Less than 3.0 watts

### Environmental Specifications

Operating Temperature	-30C° ~ +55C°
Enclosure	Aluminum extrusion, waterproof

### I/O - Panel Specification

Standard Ports	2 Serial Ports (RS232)
Status Indicator	2x3-color LED's, (Green, Red, Yellow)
Interface	MINTER (FN,PWR), RESET button

### Memory & Recording

Memory	Up to 128 MB
Logging Intervals	Up to 20 times per second

*Topcon sells GPS products into the precision markets only.  
Go to [www.topcongps.com](http://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.

