HiPer II — The Next Generation Dual Frequency GNSS Receiver

Topcon raises the industry standard once again by presenting the next-generation of the world’s most popular receiver system—the HiPer II. Smaller, lighter, faster, more affordable: the HiPer II receiver is designed on these clear-cut concepts. This state-of-the-art receiver not only offers further enhanced agility, but also increases receiver performance and user-friendliness as well as the fully customizable structure providing our customers with the maximum flexibility to choose the system options they require.

Internal GSM/CDMA Modern for Network RTK
Designed as a perfect network RTK rover, the HiPer II gives you the option of an internal GSM or CDMA cellular modem. With its completely integrated design, the HiPer II eliminates the hassles of external modems and cables, all in a lightweight, rugged design.

Voice Messages for Receiver Status
Multi-lingual, clear-tone voice messages notify the users of critical receiver information and status such as satellite signal interruption, radio interference, low battery, low memory and more. This feature improves your efficiency by providing information without having to look at the LED display or controller screen.

Long-Life Li-ion Battery
Topcon’s HiPer II comes standard with a modern design long-life Lithium Ion battery that is located safely behind a sealed battery cover.

Data Storage with SD or SDHC Cards
A large volume of static observation data from long term survey projects, long sessions and displacement monitoring can be stored onto the popular SD cards or SDHC cards with 4GB or larger capacity.

Specifications

<table>
<thead>
<tr>
<th>TRACKING CAPABILITIES</th>
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<tbody>
<tr>
<td>Number of Channels 72 Universal Channels</td>
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<tr>
<td>Tracked Signals GPS L1 CA, L1/L2 P-code, L2C, GLONASS L1/L2 CA, L1/L2 P-code, SBAS WAAS, EGNOS, MSAS</td>
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<tr>
<td>POSITONING ACCURACY</td>
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<tr>
<td>Static L1 + L2 H: 3mm + 0.5ppm V: 5mm + 0.5ppm</td>
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<tr>
<td>L1 only H: 3mm + 0.8ppm V: 4mm + 1ppm</td>
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<tr>
<td>Fast Static L1 + L2 H: 3mm + 0.5ppm V: 5mm + 0.5ppm</td>
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<tr>
<td>Kinematic L1 + L2 H: 10mm + 1ppm V: 15mm + 1ppm</td>
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<tr>
<td>RTK L1 + L2 H: 10mm + 1ppm V: 15mm + 1ppm</td>
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<tr>
<td>DGPS &lt;0.5m</td>
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DATA MANAGEMENT
Memory Multi-lingual voice messages for receiver status information
Data Format RTCM SC104 2.1/2.2/2.3/3.0/3.1, CMR, CMR+, NMEA
Update/Output Rate 1Hz, 5Hz, 10Hz, 20Hz options
Communication Port RS-232C (4,800 to 115,200bps)

WIRELESS COMMUNICATION
Bluetooth® Modem V2.1 + EDR, Class 1, 115,200bps
UHF Radio Internal, receiver (RX) and transmitter (TX), 410 to 470MHz
Spread Spectrum Radio Internal, receiver (RX) and transmitter (TX), 915MHz
GSM/CDMA Modern Internal

ENVIRONMENTAL
Dust/Water Protection IP67 (IEC 60529:2001) at closing all connector caps
Protected against temporary immersion up to 1m (3.3ft.) depth
Shock 2m (6.56ft.) pole drop
Operating Temperature HiPer II receiver -40 to +149° F (-40 to +65° C)
Radio/GSM modems -4 to +131° F (-20 to +55° C)
Storage Temperature -49 to +158° F (-45 to +70° C)
Humidity 100%, condensing

PHYSICAL
Enclosure Magnesium alloy housing
Size 7.24” Diameter x 3.74” Height (184mm Diameter x 95mm Height)
Weight HiPer II receiver 2.43 lb. (1.1kg)
BDC58 6.9 oz. (195g)
Radio/GSM modems 4.1 to 8.2 oz. (115 to 230g), depending on modem specifications

POWER SUPPLY
Standard Battery BDC58 Detachable, Li-ion rechargeable battery, 7.2V, 4.3Ah
Operating Time at 68° F (20°C) >7.5 hours in static mode w/Bluetooth® Charger CDO68 Recharging time Approx. 4 hours at 77° F (25° C)
Input Voltage 100 to 240V AC (50/60Hz)5
External Power Input Voltage 6.7 to 18V DC

Features:
* Integrated GPS+GLONASS RTK & Static Receiver
* Rugged, Lightweight, Magnesium Alloy Construction
* Cable-free Bluetooth® Wireless Operation
* Optional integrated SS or Digital UHF Radio
* Optional integrated GSM or CDMA Modern
* Bright, easy-to-read LED Panel
* Voice Messages for Receiver Status
* SD/SDHC Memory Card Slot
* Removable Li-ion Battery

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