**Basic Specifications**

**Tracking capability**
- **Number of channels**: 72 Universal Channels
- **Tracked signals**: GPS L1, L1/L2 P-code, L2C
- **GLONASS S/BAS**: L1, L1/L2 CA, L1/L2 P-code, WAAS, EGNOS, MSAS
- **SBAS**: GLONASS

**Positioning accuracy**
- **Static**: L1+L2 (H: 3mm + 0.9ppm, V: 5mm + 0.9ppm)
- **Fast static**: L1+L2 (H: 3mm + 0.9ppm, V: 5mm + 0.9ppm)
- **Kinematic**: L1+L2 (H: 10mm + 1ppm, V: 15mm + 1ppm)
- **RTK**: L1+L2 (H: 3mm + 0.5ppm, V: 4mm + 1ppm)

**User interface**
- **Operation**: Single-button operation for power, receiver reset, memory initialization

**Data management**
- **Memory**: SD/SDHC card (FAT16/32 formats)
- **Voice navigation**: 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, TPS

**Wireless communication**
- **Bluetooth modem**: V.1.1, Class 1, 115,200bps
- **Cellular modem**
  - **Internal**: GSM or CDMA
  - **Optional**: Integrated UHF or Digital UHF Radio

**Environmental**
- **Dust and water protection**: IP67 (IEC 60529:2001) at closing all connector caps
- **Shock**: 2m (6.5ft.), pole drop
- **Operating temperature**
  - **HiPer II receiver**: -40 to +65°C (-40 to +149°F)
  - **BDC58 battery**: -20 to +65°C (-4 to +149°F)
  - **Internal modem**: -20 to +55°C (-4 to +131°F)
  - **Humidity**: 100%, condensing

**Power supply**
- **Standard battery**: BDC58, Removable, Li-ion rechargeable battery
- **Operating time at 20°C (68°F)**: > 7.5 hours in static mode (HiPer II only)
- **Charger**
  - **CDC68**: Recharging time: Approx. 4 hours at 25°C (77°F)
  - **Input voltage**: 100 to 240V AC (50/60Hz)
  - **External power**: Input voltage: 6.7 to 18V DC

**Specifications**
- **Number of channels and tracked signals vary according to receiver configurations**.
- **Accuracy depends on the number of satellites used, obstructions, satellite geometry (DOP), occupation time, multipath effects, atmospheric conditions, baseline length, survey procedures and data quality**.
- **1Hz standard. Higher rates available as options**.
- **Internal "radio" or "radio+cellular modem" available as factory options**.
- **Use with an appropriate AC power cable**.

**Your local Authorized Topcon dealer is:**

**HiPer II**

- **Completely integrated, Advanced GNSS Solution**
  - **Smaller, Lighter, Faster.**
  - **Integrated GPS+GLONASS RTK & Static Receiver**
  - **Rugged, Lightweight Magnesium Alloy Construction**
  - **Cable-free Bluetooth Wireless Operation**
  - **Optional Integrated UHF or Digital UHF Radio**
  - **Optional Integrated GSM or CDMA Modem**
  - **Bright, Easy-to-read LED Panel**
  - **Voice Messages for Receiver Status**
  - **SD/SDHC Memory Card Slot**
  - **Removable Li-Ion Battery**

**HiPer II Standard Configuration**
- **HiPer II GNSS Receiver**
- **BDC58 Li-ion battery x2**
- **CDC68 charger**
- **Serial cable**
- **5/8 inch conversion plug**
- **100mm spacer (for HiPer II with UHF radio)**
- **User manual (CD-ROM)**
- **Carrying case**

**Optional Accessories**
- **Bipod**
- **Bracket for FC-250**
- **5.5m tape measure**
- **Type 3WP Prism adapter**
- **Type 2 Base**
In the early 2000s, Topcon revolutionized the GNSS positioning technology with the HiPer series of receivers. Its fully integrated design gave the highest agility to RTK rovers ahead of its time, by eliminating extra equipment such as backpacks and cables.

Now 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.

**Compact, Lightweight, Cable-free solutions for all GNSS Positioning Applications**

- **GPS+ Dual-Frequency Signal Tracking**
  Topcon’s industry-leading GPS+GLONASS, dual-frequency signal tracking technology offers superior positioning capability over the GPS only receiver. It makes a difference where sky visibility is limited, such as in urban canyons or in woodlands, near tall fences, or other obstructions.

- **Cable-free RTK Base and Rover with an Internal Radio Transmitter/Receiver**
  No more hassles with connecting to an external radio. The HiPer II has an optional internal radio with receiver and transmit capabilities, which eliminates cables for both rover and base stations. Topcon provides a choice of internal radio from either UHF or Digital UHF technologies.

- **Internal GSM/CDMA Modem 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 internal modems and cables, all in a lightweight, rugged design.

- **Voice Messages for Receiver Status**
  Multi-lingual, cleartone 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.

- **Tailor the System to Your Own Requirement**
  Fully customizable receiver functionality and a wide variety of options provide the maximum flexibility to tailor the HiPer II system to your own requirement.

  - **Software Solutions**
    - Field Controllers
    - Memory Devices
    - External power port
    - Serial port
    - Power button
    - Speaker
    - Battery cover
    - Removable Li-ion battery
    - SD/SDHC card slot
    - SIM card slot
    - Tape measure hook

  - **Choice of Field Controller System Solutions**
    - Topcon provides you with the choice of field controller. Choose from the small lightweight FC-250 or the ultrarugged, full-keyboard model FC-2560 for the ultimate field performance.

  - **TopSURV Field Controller**
    - Easy-to-navigate, intuitive user-interface of the TopSURV software allows all users to utilize its full functionality with the shortest learning curve. TopSURV supports all surveying tasks, including topo data collection, as-built survey, and stakeout.

  - **Topcon Tools Complete GNSS Data Management & Post Processing Software**
    - The powerful Topcon Tools software suite completes the full Topcon field-to-finish GNSS solution. With comprehensive data manipulation, processing, and analysis, Topcon Tools unlocks the full potential of the Topcon GNSS system solution.

  * Field controllers and software are sold separately.