

Topcon HiPer SR

Providing leading edge technology in a smart, rugged design, the new HiPer SR with optional Cellular configuration adds possibilities to your job site. With an integrated cellular modem, the new HiPer SR becomes an extended GNSS range site receiver and can be used in a variety of setup including MAGNET Relay, Network, and LongLink™. While bringing flexibility, the HiPer SR Cellular configuration still provides superior performance at an affordable price.

Features & Benefits

- 226-channel Vanguard Technology
- Universal Tracking Technology
- Advanced Fence Antenna™ Technology
- Compact, lightweight, rugged design
- Fully integrated LongLink™
- Cellular (optional) configuration*
- Dual SIM Card Support (micro)
- Sealed battery providing up to 20 hours of operation
- [Hybrid ready ?](#)

*HiPer SR now has 2 variants: basic with LongLink (current model) and the new HiPer SR with Integrated Cellular Modem. For more details on these 2 variants, please check the FAQ in the Sales tab.



Integrated Technology.

The integrated receiver design includes a GNSS receiver board based on Vanguard™ technology, industry leading Fence Antenna™, internal long-life batteries, memory storage, optional cellular configuration, and Topcon's innovative LongLink™ wireless communication technology. The Topcon HiPer SR delivers world-class positioning and navigation capability to your application by tracking signals from multi-constellation satellite systems, including GPS, GLONASS, QZSS, and SBAS.

Performance.

In addition to ruggedness, the HiPer SR is the most versatile configurable, compact receiver system available. Use just 2 units in many configurations, depending on the demands of the project site. Use as a job site base and rover with interference-free LongLink communication up to 300m, or base and rover with MAGNET Relay cellular communication RTK up to 35km baselines. A pair of HiPer SR receivers can also be used as 2 network rovers with internal SIM cards, 2 network rovers with internet capable field controllers, 2 dual frequency static receivers, or in conjunction with a robotic instrument for Hybrid Positioning. All these configurations from just 2 receivers that can fit into any laptop carrying bag. That's versatile performance!

Power.

Topcon's HiPer SR provides you the power to work through the toughest conditions all day long, and then some! It's Topcon's leading edge GNSS technology in a smart, compact, ultra-rugged package. With it's lightweight design and magnesium housing the HiPer SR is guaranteed to survive a 2m on the pole drop to concrete. And the sealed long-life power supply keeps you working for up to 20 hours between charges.

Price.

The best part? HiPer SR will fit your budget just like it'll fit your jobs. ...with ease!

Topcon HiPer SR Product Specifications	
Tracking	
Number of Channels	226-channel Vanguard Technology with Universal Tracking Channels capable of tracking up to 112 satellites
Signals	GPS L1, L2, L2C GLONASS L1, L2, L2C SBAS QZSS L1, L2C
WAAS / EGNOS / MSAS	Yes
Antenna Type	Integrated Antenna w/ internal ground plane
Positioning Accuracy*	
RTK	H: 10 mm + 1.0 ppm, V: 15 mm + 1.0 ppm
Static	Fast Static (L1) H: 3 mm + 0.8 ppm, V: 4 mm + 1.0 ppm Fast Static (L1+L2) H: 3 mm + 0.5 ppm, V: 5 mm + 0.5 ppm
Differential GPS (DGPS)	H: 0.4 m, V: 0.6 m
SBAS	H: 1.0 m, V: 1.5 m
Autonomous (L1/L2)	< 1.2 meter
Data Rate	10 Hz (maximum)
Communication	
RTK	Broadcast using LongLink™ 300+ meter range - maximum of 3 simultaneous rovers MAGNET Relay with cellular model - maximum of 10 simultaneous rovers
Bluetooth®	Yes

Serial	Yes
USB Port	Yes, Client
Cellular (optional)	Integrated HSPA+
Sim Card	Single and Dual Not available on basic model
Data and Memory	
Memory	2GB internal
Real Time Data Output Format	TPS, RTCM SC104 v2.x, 3.x; CMR/CMR+
ASCII Output	NMEA 0183 version 2.x and 3.0
Physical	
Dimensions	Width = 150 mm (5.9 inches), Depth = 150 mm (5.9 inches), Height = 64 mm (2.5 inches)
Weight	850 grams (1.87 lbs.) (basic model) 925 grams (2.04 lbs.) (cellular model)
Display Panel	MINTER status
External Power	Yes
Power Supply	
Operating Time	Up to 20 hours
Environmental	
Operating Temperature	-20°C (-4°F) to +65°C (149°F) with internal batteries -40°C (-40°F) to +65°C (149°F) without internal batteries (external power)
Storage Temperature	-40°C (-40°F) to +70°C (158°F)
Humidity	100%, condensing
Waterproof Rating	IP67 (1 meter submersion, fully dust proof)