

GNSS Receiver

HiPer SR



Compact.
Rugged.
Advanced.
Affordable.

- Universal Tracking Channel technology
- Advanced Fence Antenna™ technology
- Cable free design
- Fully integrated LongLink™ and cellular configuration (*optional*)
- Dual SIM card support

All the functionality needed

The HiPer SR is a versatile, configurable, compact receiver system. When paired as base and rover setup with interference-free LongLink communication no extra radio needed.

GNSS TECHNOLOGIES (SIGNAL TRACKING)

GPS	L1 C/A, L1C, L1P(Y), L2P(Y), L2C, L5
GLONASS	L1 C/A, L1P, L2C/A, L2P, L3C
SBAS	WAAS/EGNOS/MSAS
QZSS	L1 C/A, L1C, L2C, L5
Universal Tracking Channels™	226 Topcon's patented GNSS signal tracking technology (US 7764226 B1)
GNSS Antenna	Integrated Full wave Fence Antenna™ technology with internal ground plane

POSITIONING PERFORMANCE

Precision Static	H: 3 mm + 0.1 ppm V: 3.5 mm + 0.4 ppm
Static/Fast Static*	H: 3 mm + 0.5 ppm V: 4 mm + 0.5 ppm
RTK	H: 10 mm + 1 ppm V: 15 mm + 1 ppm

COMMUNICATIONS

Cellular	Optional HSPA+/CDMA internal cellular module
LongLink™	Up to 328.1 m / 1000 ft
Bluetooth™	Yes
Ports	1 Serial, 1 USB

DATA FORMAT AND MEMORY

Real-time Output formats	TPS, RTCM, CMR/CMR+, NMEA
Internal Memory	2 GB
Update Rate	Up to 10Hz

POWER

External Power Supply	6.5 – 30.0 V DC
Battery	Li-ion 5,000 mAh, 7.4 V
Operating time	RX mode – 17 hr. <i>Refer to Operator's manual for more information</i>

HARDWARE

Dimensions (W x H)	15.0 cm x 6.4 cm (5.90 in x 2.52 in)
Weight	0.85 kg (1.87 lb)
Ingress Protection	Dust and water IP67
Vibration	MIL-STD 810G
Drop	Survive 2m pole drop on concrete surface
Operating Temperature	-40° C to +65° C (-40° F to +149° F) with external power
Humidity	100%

* Under nominal observing conditions and strict processing methods, including use of dual frequency GPS, precise ephemerides, calm ionospheric conditions, approved antenna calibration, unobstructed visibility above 10 degrees and an observation duration of at least 3 hours (dependent on baseline length).

