

## SPECIFICATIONS

### Tracking

Number of Channels	226 Channels
Signals Tracked	GPS: L1 C/A, L1, L2P(Y), L2, L2C code and carrier GLONASS: L1 C/A, L1P, L2 C/A, L2P code and carrier SBAS (WAAS/EGNOS/MSAS) L1 code and carrier QZSS L1 code and carrier Galileo <sup>1</sup>
Antenna Type	Integrated Antenna w/ internal ground plane
Technology	Quartz Lock Loop, Intelligent Tracking Optimization Topcon AMR, Universal Tracking Technology Topcon AFRM

### Positioning Accuracy\*

RTK (L1+L2)	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 Kinematic (L1, L1+L2) H: 10 mm + 1.0 ppm; V: 15 mm + 1.0 ppm
DGPS	< 0.4 m
SBAS	< 0.6 m
Autonomous	< 1.2 m
Maximum Data Rate	20 Hz

### Communication

RTK Broadcast	LongLink™ 300m+ Range, Maximum of 3 simultaneous rovers
Bluetooth®	Yes
Serial	Yes
USB	Yes, Client

### Data & Memory

Memory	4GB internal (non-removable)
Real Time Data Output	TPS, RTCM SC104 v 2.x, 3.x; CMR/CMR+
ASCII Output	NMEA 0183 version 2.x and 3.0

### Physical

Dimensions	150 (W) x 150 (D) x 64 (H) mm 6 (W) x 6 (w) x 1.5 (H) inch
Weight	850 gms, 1.87lbs
Status Display / Panel	MINTER
External Power Connector	Yes

### Power Supply

Operation Time	Up to 20 hours
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### Environmental

Operating temperature	-20°C to +65°C with internal batteries -40°C to +65°C without internal batteries (external power)
Storage temperature	-40°C to +70°C
Humidity	100%, condensing
Water & Dustproof rating	IP67 (1 meter submersion, fully dustproof)

<sup>1</sup> Support for Galileo will be incorporated into HiPer SR when the constellation has matured and is ready for commercial use.