

VR10

GNSS RECEIVER



134mm



152mm



1.1 kg



6800mAh, internal Battery

2m



2 meter-drop resistance

FEATURES

- ▶ Small size, portable and cost-effective
- ▶ Great mobility
- ▶ 1m accuracy with less than 10 seconds



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VR10

Datasheet

PERFORMANCE

Channel Configuration: 432 channels

Signal Tracking

GPS: L1,L2,L2C

GLONASS: L1,L2

BDS: B1,B2

Galileo: E1,E5b

SBAS: L1

QZSS: L1/L5

Horizontal Position Accuracy (RMS)

Single Point: 1.2m

Code Differential GNSS Positioning

SBAS: 0.6m

DGPS: 0.4m

Static GNSS Surveying

Horizontal: 5mm+1ppm

Vertical: 10mm+1ppm

Real Time Kinematic Surveying

Horizontal: 10mm+1ppm

Vertical: 20mm+1ppm

Initialization time: typically <10 seconds

Initialization reliability: typically >99.9%

Maximum Data Rate

Position: 20 HZ

Time to First Fix

Cold start: <40 seconds

Hot start: <10 seconds

PHYSICAL AND ELECTRICAL

Dimensions: 136mm X 89mm

Weight: 0.7Kg

Power

Input voltage: DC 6V - 28V, with polarity reverse protection

Lion Battery capacity: 6800mAH, internal Battery

COMMUNICATION PORTS

Full RS-232 serial (Dsub 9 pin) on Port 1 and Port 2

Data Formats

Data output: NMEA-0183, raw data

Differential data: RTCM2.3 / 3.0 / 3.1 / 3.2

NTRIP Client, Cors.

UHF Radio

Standard Internal: Rx/Tx 410 to 470 MHz

Transmit power: 0.5 w to 1w

Protocol: Trimatlk, trimmark3.

ENVIRONMENTAL

Temperature

Operating: -40°C ~ +70°C

Storage: -45°C ~ +80°C

Humidity: 95% non-condensing

Environment protection: IP67

Shock

Designed to survive a 2 m (6.6 ft) pole drop onto concrete



*The above technical parameters are subject to the actual product; any changes will be made without further notice.



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VR10 Datasheet Rev. 0