

VR11

GNSS RECEIVER



VertexNav The Power Of Precision

140MM



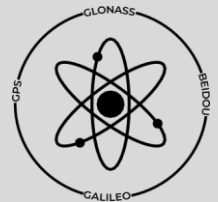
88MM

10000 mAh



Up to 20 hours
Operating time

1.03 Kg



1408 Channels



VERTEX
NAVIGATION SOLUTIONS

VR11 GNSS RECEIVER

Specifications

GNSS Performance

Channels	1408 channels
GPS	L1, L2, L5
GLONASS	L1, L2
Galileo	E1, E5a, E5b
BeiDou	B1I, B2I, B3I, B1C, B2a
QZSS	L1, L2, L5

GNSS Accuracies

Real time kinematics(RTK)	Horizontal: 8 mm + 1 ppm RMS Vertical: 15 mm + 1 ppm RMS Initialization time:< 5s Initialization reliability: > 99.9%
Post-processing kinematics (PPK)	Horizontal: 2.5 mm + 1 ppm RMS Vertical: 5 mm + 1 ppm RMS
Post -processing static	Horizontal: 2.5 mm + 0.5 ppm RMS Vertical: 5 mm + 0.5 ppm RMS
Time to first fix	Cold start: <25 s Hot start: < 10 s Signal re-acquisition: < 1s

Hardware

Size (L x W x H)	140 mm x 140 mm x 88 mm (5.5 in x 5.5 in x 3.5 in)
Weight	1.03 kg (2.27lb)
Environment	Operating: -45°C to +75°C (-49°F to +167°F) Storage: -55°C to +85° (-67°F to +185°F)
Humidity	100% condensation
Ingress protection	IP67 waterproof and dustproof, protected from temporary immersion- to depth of 2 m
Shock	Survive a 2- meter pole drop
Front panel	4 LED indicates 2 physical buttons

Communication

Bluetooth	v 4.0, Backward compatible with BT2.x
Ports	1 x 9 PIN aviation plug, including power supply, COM RS232, CONFIG, RS232. 1 x UHF radio antenna interface
Build-in UHF radio	Standard Internal Rx / Tx : 410 -470 MHz Transmit Power: 0.5 W to 2 W Protocol: Transparent, TT450S,Trintalk, TRMMARK3 Range: Typical 5 km to 8 km
Data formats	RTCM2.x, RTCM3.x, CMR
Data storage	8 GB internal memory

Electrical

Power consumption	5 W (depending on user settings)
Li -ion battery capacity	10000mAh
Operating time on internal battery	20h (Rover) 10h (Base)
External power input	9 V DC to 36 V DC
Power consumption	As Rover<4.0W As Base<10.5W



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