

Specifications



Satellite Constellation

Channels	1408
GPS	L1C/A, L2P, L2C, L5, L1C
BDS-2	B1I, B2I, B3I, B1C, B2a, B2b
BDS-3	B1I, B3I, B1C, B2a, B2b
GLONASS	G1, G2, G3
Galileo	E1, E5a, E5b, E6
QZSS	L1C, L2, L5, L1C/A
SBAS	L1C/A, L5*
IRNSS	L5*

Built-in Radio

Power consumption	1 W
Frequency	410Mhz-470Mhz/ 840.5Mhz-845Mhz&902Mhz-928Mhz
Protocol	TRIMTALK, TRIMMARK III, TT450S, TRANSEOT , and SATEL 4FSK.
Work Range	5-10km typically.

Bluetooth

Protocol	BT4.2 & BLE
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Receiver

Size & Weight	162*86 mm; 1 kg
IP rating	IP67

Power Supply

Voltage

Rated input voltage: 12 V DC;
Input voltage range: 9-32 V DC

Battery

Battery capacity & life

6500 mAh;
Base 10hrs and Rover 15hrs typically.

Ambient Environment

Operating temperature

-30°C - 60°C

Storage temperature

-40°C - 75°C

Humidity

95%

Positioning Performance

Single positioning (RMS)

Horizontal 1.5 m, vertical 3 m;

Post-processing static accuracy

Horizontal: 5mm+0.5ppm RMS
Vertical: 5mm+0.5ppm RMS

RTK accuracy

Horizontal: 8mm+1ppm RMS
Vertical: 15mm+1ppm RMS

Tilt Survey with IMU (V1t)

Precision 2.5cm with an angle of 30°

Update rate

Raw observation data: 1, 2, 5, 10 Hz
Real-time positioning data: 1, 2, 5, 10 Hz

Data format

RTCM2.X, RTCM3.X, NMEA-0183, RINEX