

SPECIFICATIONS

GNSS Performance	
Channels	1008
Satellites tracking	BDS: B1I/B2I/B3I/B1C/B2a GPS: L1C/A/L2P/L2C/L5 GLONASS: L1/L2 Galileo: E1/E5a/E5b QZSS: L1/L2/L5
Positioning rate	10 Hz
Operation system	Linux
Initialization time	< 5 sec
Initialization reliability	> 99.9 %
Post-processing static	Horizontal: 2.5 mm + 0.5 ppm Vertical: 5 mm + 0.5 ppm
Real time kinematics (RTK)	Horizontal: 8 mm + 1 ppm Vertical: 15 mm + 1 ppm
IMU Sensor	
IMU	Supported
Accuracy	Less than 2.5 cm within 30°
Tilt angle	0°~60
Hardware	
Size (L x W x H)	133 mm × 133 mm × 85 mm
Weight	0.86 kg
Button	Power button
Operating temperature	-45°C~ +75°C
Storage temperature	-55°C~ +85°C
Water/Dust Proof	IP67
Shock resistance grade	IK08
Shock	Survive a 2 m drop
Data Output	
Correction data	CMR, RTCM2.X , RTCM3.X, Full Star
GPS data	NEMA 0183, PJK, Binary

Feature	
Intelligent voice	Data collector voice
Cloud service	Remote assistance, data sharing, etc.
Static Data Recording	
Format	RINEX
Data storage	8G internal memory
Electrical	
Battery capacity	Rechargeable and built-in Lithium-ion battery, 6,800 mAh
Working time	15 hours with Ntrip work mode
External power	USB Type-C power, powerbank supported
Communication	
Ports	1 x USB Type-C port (data download, firmware update and charge) 1 x UHF antenna port (TNC female)
Bluetooth	Supported
Wi-Fi	Supported
Webpage configuration	Supported
NFC	Supported
UHF radio	Standard Internal Rx/Tx: 410 - 470 MHz Transmit Power: 0.5 W and 1 W Protocol: EFIX, Transparent, TT450, Satel3AS Range: Typical 2 km to 4 km. Link rate: 4,800 bps / 9,600 bps/ 19,200 bps

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