

SPECIFICATIONS

GNSS Performance

Channels	1008
Satellites tracking	BDS: B11/B21/B31/B1C/B2a GPS: L1/L2/L5 GLONASS: L1/L2 Galileo: E1/E5a/E5b QZSS: L1/L2/L5
Positioning rate	Up to 20 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)	121 mm × 121 mm × 74 mm
Weight	0.87 kg
Button	Power button
Operating temperature	-45°C~ +75°C
Storage temperature	-45°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) 1 x UHF antenna port (TNC female)
Bluetooth	Supported
Wi-Fi	Supported
Webpage configuration	Supported
NFC	Supported
UHF radio	Standard Internal Rx: 450 - 470 MHz Protocol: Transparent, TT450 S

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