

Product Specification

E600

RUGGED & ALL-FUNCTIONAL GNSS RECEIVER



GNSS Performance		
Satellites tracking	GPS	L1 C/A, L1C, L2P(Y), L2C, L5
	BDS	B1I, B2I, B3I, B1C, B2a, B2b
	GLONASS	L1, L2, L3
	Galileo	E1, E5a, E5b, E6
	QZSS	L1, L2, L5
	NavIC	L5
	SBAS	WAAS, GAGAN, MSAS, EGNOS, SDGM, BDS
	L-Band	B2b PPP (Only for the Asian-Pacific region), HAS ¹
Channels		1408
Signal reacquisition		< 1 second
Cold start		< 30 seconds
Warm start		< 20 seconds
Hot start		< 5 seconds
RTK signal initialization		< 5 seconds
Initialization reliability		> 99.9%
Update rate		20 Hz
High precision static		- H: 2.5 mm + 0.1 ppm (RMS) - V: 3.5 mm + 0.4 ppm (RMS)
Static and Fast Static		- H: 2.5 mm + 0.5 ppm (RMS) - V: 5 mm + 0.5 ppm (RMS)
RTK		- H: 8 mm + 1 ppm (RMS) - V: 15 mm + 1 ppm (RMS)
Standard point positioning		- H: 1.5 m (RMS) - V: 2.5 m (RMS)
Code differential		- H: 0.4 m (RMS) - V: 0.8 m (RMS)
SBAS		- H: 0.3 m (RMS) - V: 0.6 m (RMS)
Correction data		RTCM V3.X, RTCM2.X, CMR
Data output		GGA, ZDA, GSA, GSV, GST, VTG, RMC, GLL, Binary

Power Supply	
Battery	Removable and rechargeable Hot-swappable Lithium-ion battery x 2 7.2 V ~ 3400 mAh x2
Voltage	9 ~ 28V DC
Working time	Up to 22 hours as rover
Charging time	Typically 4 hours

Internet Modem	
Supported band	Global 4G - LTE FDD: B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/B19/B20/B25/B26/B28 - LTE TDD: B38/B39/B40/B41 - WCDMA: B1/B2/B4/B5/B6/B8/B19² - GSM: 850/900/1800/1900 MHz²

System	
Operation system	Linux
Internal memory	8GB (Support TF card extension, maximum 32 GB)
Bluetooth	BT5.0+EDR, BLE ³
Wi-Fi	802.11 a/b/g/n/ac ⁴
SIM card	✓
TF card	✓
TNC	Connect internal radio with antenna
5-pin port	Connect to external radio and external power
7-pin port	NMEA output, internal storage access
Web UI	View status, update firmware, set up working mode, download data, etc.
Intelligent voice	Broadcast working mode and status
Tilt sensor	MEMS Fast initialization, dynamic tilt survey up to 60°

Physical	
Dimension	Φ156 mm x H76 mm
Weight	1300 g
Operating temperature	-30°C ~ +65°C
Storage temperature	-40°C ~ +80°C
Water / dust proof	IP67
Shock	- Withstand topple over from a 2 m survey pole onto hard surfaces - Survive a 1.2 m free drop
Vibration	Vibration resistant
Humidity	Up to 100%
Indicators	Satellites, datalink, battery, Bluetooth
Button	Power button, short press to voice broadcast working mode and status
Certificate	CE, FCC, NGS, IGS

Internal Radio	
Type	TX and RX
Emitting Power	1 W / 2 W
Operation Range	3 ~ 5 km typically - up to 15 km with optimal conditions⁵
Frequency range	410 ~ 470 MHz
Channel spacing	6.25 kHz ⁶ / 12.5 kHz / 25 kHz ²
Protocol	TRIMTALK, TRIMMK III, SOUTH, TRANSEOT, GEOTALK, GEOMK3, SATEL, HITARGET, HZSZ, PCCEOT, PCCEOT _SATEL, PCCFST, PCCFST _ADL, SATEL _ADL, FARLINK, elink _Ultra, geotalk _Ultra

1: It will be supported through future firmware update.

2: Not support in Viet Nam.

3: In Viet Nam, BT5.0+EDR, BLE @ Power 10mW.

4: In Viet Nam, 802.11 b/g/n 2.4 GHz Band @ max 17.5dBm(eirp).

5: It varies with the obstacle and terrain.

6: It is only available for radio protocol "Satel", and the radio firmware is later than G001.02.27.



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