

GNSS SPECIFICATIONS

Model		G2U
Channel Configuration		1408 channels
		Multi-Frequency GPS, GLONASS, Galileo, Beidou and QZSS
		UM980
Receiver Board		UM980
Signal Tracking	GPS	L1C/A, L2P(Y), L2C, L5
	GLONASS	L1, L2
	BEIDOU	B1i, B2i, B3i, B1C, B2a, B2b*1
	Galileo	E1, E5a, E5b, E6*1
	QZSS	L1, L2, L5, L6*1
	SBAS	NA
	NavIC (IRNSS)*1	NA
	L-Band	NA
Position Accuracy		Horizontal
	SBAS (WAAS, GAGAN etc.)	NA
	DGPS	0.4 m
RTK Performance	Horizontal Accuracy	8 mm + 1 ppm
	Vertical Accuracy	15 mm + 1 ppm
	Horizontal Accuracy (Network RTK)	8 mm + 1 ppm
	Vertical Accuracy (Network RTK)	15 mm + 1 ppm
	Average Time to Work	Typ. < 10 sec.
	Availability/Initialization Reliability	> 99.9%
Static Performance	Horizontal Accuracy(Long time observation)*2	NA
	Vertical Accuracy(Long time observation)*2	NA
	Horizontal Accuracy	2.5 mm + 0.5 ppm
	Vertical Accuracy	5 mm + 0.5 ppm
PPP (Precision Point Positioning)		NA
Ports		Lemo 7-pin, external radio and power supply
		USB, power supply
Internal Radio Modem	Frequency	410 Mhz - 470 Mhz
	Output Power	0.5 W / 1 W / 1.5 W
Cell Modem	Modem	
	Frequency Bands	LTE FDD: B1/B3/B5/B8 LTE TDD: B38/B39/B40/B41 TD-SCDMA: B34/B39 CDMA: BC0 WCDMA: B1/B8 GSM: 900/1800MHz
	Network Protocol	NTRIP, HTTP, FTP, TCP, UDP
Power	Internal Battery	9600 mAh / 3.7 V
	Battery Running Time	16 hours with 1.5 Watt internal radio
Weight		≤ 0.75 kg
Dimensions		∅ 147.9 mm x H 68 mm
Environmental Specifications	Operating Temperature	-20 °C to +60 °C
	Storage Temperature	-40 °C to +85 °C
	Shock/Drop	Withstand 1.5 m pole drop
Velocity Accuracy	Standalone	0.03 m/sec RMS
Data Output	Raw Data output frequency	up to 5 Hz (20 Hz optional)
	NMEA Data output frequency	up to 5 Hz (20 Hz optional)
	Correction data Protocol	RTCM 2.X, RTCM 3.X
Time to First Fix		CMR, RTD
	Cold Start	< 30 sec
	Warm Start	< 20 sec
	Reacquisition	< 5 sec
WiFi		802.11 a/b/g/n/ac
IMU	Electric Bubble	NA
	Tilt compensated	60°
	Tilt accuracy	< 2 cm (within 60°)
Bluetooth		V2.1 + EDR / V4.0 dual mode
Memory		32GB
Waterproofing		IP 68
Certification		CE
Standard Accessories		USB Type A/Type C Cable with USB 5V/2A Adapter
		UFH Antenna
		5/8 inch screw adapter
		25 cm pole Measuring plate

*1 Hardware ready

*2 Performance, Accuracy and Reliability are dependent upon various factors including satellite geometry, number of satellites, ionospheric conditions, atmospheric conditions and multipath.

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