S980A TECHNICAL FEATURES

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RECEIVER	
	GPS: L1 C/A, L1C, L1P, L2C, L2P, L5
	GLONASS: L1 C/A, L1P, L2 C/A, L2P, L3
	BEIDOU: B1, B2, B3, ACEBOC
Satellite signals tracked	GALILEO: E1, E5a, E5b, ALTBOC, E6
	QZSS: L1 C/A, L1C, L2C, L5, L6
	IRNSS: L5
	SBAS: L1, L5
L-Band	Atlas H10 / H30 / Basic (optional) ⁵
Bridging of RTK outages	aRTK - Works up to 20 minutes
Channels	800
Position Rate	10 Hz (optional 20-50Hz) ⁵
Signal Reacquisition	<1s
RTK Signal Initialization	Typically < 10 s
Hot Start	Typically < 15 s
Initialization Reliability	> 99.9 %
Internal Memory	32 GB
Tilt sensor	E-Bubble
THE SENSOR	IMU (optional) ⁵

OSITIONING!

STATIC GNSS SURVEYING	POSITIONING*	
Horizontal 2.5 mm + 0.1 ppm RMS	STATIC GNSS SURVEYING	3
Vertical 3.5 mm + 0.4 ppm RMS		2.5 mm + 0.1 ppm RMS
Horizontal 3 mm + 0.5 ppm RMS		3.5 mm + 0.4 ppm RMS
Vertical 5 mm + 0.5 ppm RMS CODE DIFFERENTIAL POSITIONING Accuracy 0.40 m RMS SBAS POSITIONING ² Accuracy 0.60 m RMS REAL TIME KINEMATIC (* 30 Km) – NETWORK RTK ² Fixed RTK Horizontal 5 mm + 1 ppm RMS Fixed RTK Vertical 10 mm + 1 ppm RMS		3 mm + 0.5 ppm RMS
Accuracy		5 mm + 0.5 ppm RMS
SBAS POSITIONING2	CODE DIFFERENTIAL POS	SITIONING
Accuracy	Accuracy	0.40 m RMS
REAL TIME KINEMATIC (< 30 km) – NETWORK RTK³	SBAS POSITIONING ²	
Fixed RTK Horizontal 5 mm + 1 ppm RMS	Accuracy	0.60 m RMS
Fixed RTK Vertical 10 mm + 1 ppm RMS	REAL TIME KINEMATIC (<	30 Km) - NETWORK RTK ³
	Fixed RTK Horizontal	5 mm + 1 ppm RMS
RTK Signal Initialization 2 to 8 seconds	Fixed RTK Vertical	10 mm + 1 ppm RMS
2 00 0 00001100	RTK Signal Initialization	2 to 8 seconds

INTEGRATED GNSS ANTENNA

High accuracy four constellation antenna, zero phase center, with internal multipath suppressive

INTERNAL RADIO 2-5 WATT

Туре	Tx - Rx
Frequency Range	410 - 470 MHz
Channel Spacing	12.5 KHz / 25 KHz
Range	5 Km in urban environment
	Up to 15 Km with optimal conditions ⁴

Illustrations, descriptions and technical specifications are not binding and may change

- 1. Accuracy and reliability are generally subject to selding agencity (DDPs) with the properties of t

INTERNAL MODEM

	LTE FDD:
	B1/B2/B3/B4/B5/B7/B8/B12/
	B13/B18/B19/B20/B25/B26/B28
Band	LTE TDD: B38/B39/B40/B41
	UMTS: B1/B2/B4/B5/B6/B8/B19
	GSM: B2/B3/B5/B8
	Nano SIM card

COMMUNICATION

I/O Connectors	power supply and external radio Type-C, for receiver power supply and data transfer 1PPS port GNSS port for external antenna
Bluetooth	2.1 + EDR, V4.1
Wi-Fi	802.11 b/g/n
Web UI	To upgrade the software, manage the status and settings, data download, etc. via Smartphone, tablet or other electronic device with Wi-Fi capability
Reference outputs	RTCM 3.0, 3.2 CMR, CMR+, DGPS
Navigation outputs	NMEA 0183
DOWED CLIDDLY	

5 pins Lemo, connect the external

POWER SUPPLY

Battery	Internal rechargeable 7.2 V = 13.600 mAh
	9 to 28 V DC external power input
Voltage	with over-voltage protection (5 pins
	Lemo)
Working Time	Up to 10 hours
Charge Time	Typically 4 hours

PHYSICAL SPECIFICATION

Dimensions	φ 151 mm x 92 mm		
Weight	1.48 Kg		
Operating Temperature	-40°C to 65°C (-40°F to 149°F)		
Storage Temperature	-40°C to 80°C (-40°F to 176°F)		
Waterproof/Dustproof	IP67		
Shock Resistance	Designed to endure to a 2 m pole drop or		
	concrete floor with no damage		
Vibration	Vibration resistant		



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