RECEIVER		INTERNAL MODEM	
	GPS: L1 C/A, L1C, L1P, L2C, L2P, L5 GLONASS: L1 C/A, L1P, L2C, L2P	— Band	GSM/GPRS/EDGE LTE/UMTS/WCDMA
Satellite Tracked	BEIDOU: B1, B2, B3 GALILEO: E1, E5a, E5b	COMMUNICATION	
	QZSS: L1 C/A, L1C, L2C, L5 SBAS: L1, L5	I/O Connectors	7-pins Lemo and 5-pins Lemo interfaces. Multifunction cable with
L-Band	Atlas H10 / H30 / H100		USB interface for PC connection
Channels	394	Bluetooth	2.1 + EDR, V4.0
Position Rate	5 Hz, optional 20Hz	Wi-Fi	802.11 b/g/n
Signal Reacquisition RTK Signal Initialization Hot Start	< 1 sec Typically < 10 sec Typically < 15 sec	– Web UI	To upgrade the software, manage the status and settings, data download, etc. via smart phone, tablet or other
Initialization Reliability Internal Memory Micro SD Card	> 99.9 % 8 GB Expansion slot up to 32 GB	Reference outputs	internet enabled electronic device RTCM 2.3, 3.2 CMR, CMR+, ROX
POSITIONING ¹	Expansion siot up to 32 Ob	Navigation outputs	GGA, ZDA, GSA, GSV, GST, VTG, RMC, GLL
HIGH PRECISION STATIC SURVEYING			
Horizontal	2.5 mm + 0.1 ppm RMS	POWER SUPPLY	
Vertical 3.5 mm + 0.4 ppm RMS CODE DIFFERENTIAL POSITIONING Horizontal 0.25 m RMS		Battery	2 rechargeable and replaceable 7.2 V - 3400 mAh
			Intelligent lithium batteries
Vertical SBAS POSITIONING ²	0.45 m RMS	Voltage	9 to 22 V DC external power input with over-voltage protection (5 pins Lemo)
Horizontal	0.30 m RMS	- Working Time	Up to 12 hours (2 batteries hot swap)
Vertical	0.60 m RMS	- Charge Time	Typically 4 hours
Fixed RTK Horizontal 8 mm + 1 ppm RMS Fixed RTK Vertical 15 mm + 1 ppm RMS		PHYSICAL SPECIFICATION	
Fixed RTK Vertical	15 mm + 1 ppm RMS	Dimensions	φ 157 mm x 76 mm
INTEGRATED GNSS ANTENNA High assuracy four constellation micro-strip antenna, zero phase		_ Weight	1.19 Kg (with one battery) 1.30 Kg (with two batteries)
High accuracy four constellation micro-strip antenna, zero phase center, with internal multipath suppressive board		_ Operating Temperature	-30°C to 65°C (-22°F to 149°F) -40°C to 65°C (-40°F to 149°F) ⁵
INTERNAL RADIO		Storage Temperature	-40°C to 80°C (-40°F to 176°F)
227777	Tx - Rx	- Waterproof/Dustproof	IP67 / IP68 ⁶
Type Frequency Range	410 - 470 MHz	Shock Resistance	Designed to endure to a 2 m pole drop on concrete floor with no damage
Channel Spacing	12.5 KHz / 25 KHz	- Vibration	Vibration resistant
Range	3-4 Km in urban environment		

Specifications are subject to change without notice.

Up to 10 Km with optimal conditions4

Range

^{1.} Accuracy and reliability are generally subject to satellite geometry (DOPs), multipath, atmospheric conditions and obstructions. In static mode they are subject even to occupation times: the longer is the Baseline, the longer must be the occupation time.

^{2.} Depends on SBAS system performance.

^{3.} Network RTK precision depends on the network performances and are referenced to the closest physical base station.

^{4.} Varies with the operating environment and with electromagnetic pollution.

^{5.} Polar version.

^{6.} Special version