RECEIVER

Satellite signals tracked	GPS: L1C/A, L2C
	GLONASS: L1OF, L2OF
	BEIDOU: B1, B2
	GALILEO: E1, E5b
	QZSS: L1C/A, L2C
	SBAS: L1
Channels	184
Position Rate	Up to 10 Hz
Signal Reacquisition	< 2 sec
RTK Initialization	Typically > 10 sec
Hot Start	Typically < 15 sec
Initialization Reliability	> 99.9 %

POSITIONING[1]

STATIC POST PROCESSING	
Horizontal	< 2 cm + 1 ppm RMS
Vertical	< 3 cm + 1 ppm RMS
CODE DIFFERENTIAL POSITIONING	
Horizontal	< 0.5 m RMS
Vertical	< 1.0 m RMS
REAL TIME KINEMATIC	
Fixed RTK Horizontal	< 2 cm + 1 ppm RMS
Fixed RTK Vertical	< 3 cm + 1 ppm RMS

INTEGRATED GNSS ANTENNA

Full constellation GNSS antenna

HARDWARE

Processor	SC20
RAM	512 MB
Flash Memory	8GB
Operating System	Android

EXTERNAL RADIO (optional)

Model	SR02
Type	Tx - Rx - Transceiver (2 watt)
Frequency Range	410 - 470 MHz
Channel Spacing	12.5 KHz / 25 KHz
Maximum Range	3-4 Km in urban environment Up to 10 Km with optimal conditions[2]

COMMUNICATION

I/O Connectors	TYPE-C connector support USB 2.0
Bluetooth	2.1+EDR / 3.0 / 4.1 LE
Wi-Fi	802.11 b/g/n
Real time protocols	RTCM 3.x

POWER SUPPLY

Battery	Rechargeable 3.8 V - 6120 mAh
Working Time	> 10 hours
Charge Time	Typically 4 hours

PHYSICAL SPECIFICATION

Dimensions	136 mm x 78 mm x 31 mm
Weight	313g
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 a 1.2 m drop on concrete floor with no damage

STANDARD ACCESSORIES

Power adapter, USB cable, Belt case, Pole mount

OPTIONAL ACCESSORIES

Carbon fiber pole, Telescopic pole, Soft case

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. Varies with the operating environment and with electromagnetic pollution.