

RECEIVER	
Satellite Tracked	GPS: L1 C/A, L1C, L2C, L2P, L5
	GLONASS: L1 C/A, L2C, L2P, L3, L5
	BEIDOU: B1, B2, B3
	GALILEO: E1, E5 AltBOC, E5a, E5b, E6
	QZSS: L1 C/A, L1C, L2C, L5, L6
	IRNSS: L5
	SBAS: L1, L5
L-Band	Yes
Channels	555
Position Rate	5 Hz, optional up to 50 Hz
Signal Reacquisition	< 1 sec
RTK Signal Initialization	Typically < 10 sec
Hot Start	Typically < 15 sec
Initialization Reliability	> 99.9 %
Internal Memory	32 GB Multi storage sessions
External Memory	Up to 32 GB

POSITIONING ¹	
HIGH PRECISION STATIC SURVEYING	
Horizontal	3 mm + 0.1 ppm RMS
Vertical	3.5 mm + 0.4 ppm RMS
CODE DIFFERENTIAL POSITIONING	
Horizontal	0.25 m RMS
Vertical	0.45 m RMS
SBAS POSITIONING ²	
Horizontal	0.50 m RMS
Vertical	0.85 m RMS
REAL TIME KINEMATIC (< 30 Km) – NETWORK SURVEYING ³	
Fixed RTK Horizontal	8 mm + 1 ppm RMS
Fixed RTK Vertical	15 mm + 1 ppm RMS

INTERNAL RADIO ⁶	
Type	Tx - Rx
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 ⁴

INTERNAL MODEM	
Band	GSM/GPRS/EDGE: 900/1800 MHz WCDMA: 900/2100 MHz LTE: 800/2600 MHz

USER INTERFACE	
Buttons	7 keys, function keys + power key
LEDs	4 LEDs, which show the Bluetooth, differential transmission, static record, and power state respectively.
OLED display	64 x 256 pixels, mono color display

SYSTEM CONFIGURATION	
Operating System	Linux
COMMUNICATION	
I/O Connectors	Power port, Lemo connector 3 Serial port, Lemo connector USB port, Lemo connector Ethernet port, RJ45 10/100 Mbit 1PPS, SMA female Event, SMA female OSC, MMCX female ⁵ GNSS antenna, TNC female LTE, SMA female UHF, TNC female ⁶ SIM, Mini card push-pop type
Bluetooth	2.1 GHz + EDR
Wi-Fi	802.11 b/g/n hotspot/client mode
Web UI	To upgrade the software, manage the status and settings, data download, etc. via smart phone, tablet or other internet enabled electronic device
Reference outputs	RTCM 2.3, 3.0, 3.2, CMR, CMR+, RTCA, RINEX, BINEX
Navigation outputs	GGA, ZDA, GSA, GSV, GST, VTG, RMC, GLL

NETWORKING SERVICES	
NTRIP	Caster/Server/Client
Remote Management	By Stonex Software
FTP server	For data download
Email alerts	For low storage and other warning messages

POWER SUPPLY	
Battery	Rechargeable lithium battery 7.2 V - 13600 mAh
Voltage	9 to 28 V DC external power input
Working Time	Up to 20 hours
Charge Time	Typically 15 hours

PHYSICAL SPECIFICATION	
Dimensions	222 mm x 164 mm x 79 mm
Weight	2.00 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 1.2 m pole drop on concrete floor with no damage
Vibration	Vibration resistant