

## GAGAN Enabled Hand Held Gps

### Technical Specifications

Specification	Specification Name	Values
GENERIC	Type	Hand Held
	Built-in Antenna	Yes
	Dimensions (mm x mm x mm)	200.80 x 83 x 45.50
	Weight with Batteries (grams)	Below 450 g
	Channels (No.)	99 ( Acquisition), 33 ( Tracking)
	Handheld Software	yes
	Compatible Office Software	yes
	Slip Resistant Grip	Yes
	Base Map	Yes / Google Map
	DGPS, SBAS, WAAS, EGNOS, GAGAN MSAS, SDCM Supported	Yes
	Multi GNSS Engine for GPS, GLONASS, QZSS, SBAS (WAAS, EGNOS, GAGAN, SDCM)	Yes
	Embedded patch antenna ( 18.4 x 18.4 x 4.0)mm	Yes
	Automatic antenna switching function	Yes
	Built-in LNA for better sensitivity	Yes
	Anti – Jamming , Multi – tone Active Interference Canceller	Yes
	Inbuilt Electronic Compass	yes
Image / Video Geotagging & sharing options	yes	
Easily import & export KML files, shapes file, Raster images in all popular vector and Raster format	Yes	

Receiver Channels: 99 (Acquisition) , 33 (Tracking)	Yes
Location Accuracy: < 2.5 m CEP@ -130 dBm	Yes
Sensitivity: - 165 dBm@ Tracking, - 148 dBm@ Acquisition	Yes
<b>TTFF@-130 dBm with EASY™: Cold start&lt;15 sec, Warm start&lt;5 sec, Hot start &lt;1sec</b>	Yes
Timing Accuracy: 10ns Reacquisition Time <1s	Yes
Velocity Accuracy Without aid <0.1m/s Acceleration Accuracy Without aid 0.1m/s <sup>2</sup>	Yes
Sensors	Light Sensor, Proximity Sensor, Accelerometer
Camera	Rear-Facing: 8 to 13MP, Front-Facing: 5 to 8MP
Cloud Storage	Yes / Google
Image geotagging	Yes
Navigation Support	Yes / Google Map
Google Earth Support	Yes
Web Browser Support	Yes
Operating System	Android

	Audio	Microphone and Speaker, Record and Playback Option,
PORT / CONNECTIVITY	Bluetooth 4.2	yes
	USB	yes
	USB OTG Support	Yes
	Wi – Fi 2.4 Ghz.	Yes
	Cellular Connectivity : 2G, 3G, 4G, VoLTE	Yes
	SIM / Calling Option	Yes
STORAGE	<b>ROM (GB)</b>	16 GB, Expandable upto 64 GB
	<b>Micro SD Card Slot</b>	yes
DISPLAY	Display Type	HD IPS Display, Capacitive touch
	<b>Display Size (Diagonal) (Inches)</b>	5" – 5.5" digonally
	Display Resolution ( Pixels)	1280 x 720 pixels
	<b>Touchscreen</b>	Yes
BATTERY	Type of Battery	Rechargeable
	Battery Chemistry	Li-ion
	Battery capacity (mAh)	9000 mAh
	Battery Backup (Hour)	40
TRACK DETAILS	Waypoints / Favorites / Locations (No.)	Above 10,000
	Routes (No.)	Above 1,000
	Track Log	Above 10,00000 Points, Above 1000 saved Tracks
	Area Calculation	Yes
PERFORMANCE	Processor	1.1 – 1.3 Ghz.
	RAM ( GB)	2 GB
	Environmental Operating Temperature	-40°C to 85°C
	Storage Temperature	-45°C to 125°C
	Maximum Altitude	Max. 18000 m Dynamic Performance
	Maximum Velocity	Max.515m/s
	Maximum Acceleration	4G
	Operating Humidity (RH) (%)	95

	Accuracy	< 2.5 m
	Update Rate (Hz)	1 to 10 Hz.
	Time taken to give first fix (Second) ( TTFF)	<15 Sec
	UART / Bit Rate	Adjustable 4800~115200 bps
	Protocols	NMEA 0183 PMTK
	I/O Voltage	2.7V ~ 2.9V
	Power supply	3.0V ~ 4.3V
	Power Acquisition	25mA
	Power Tracking	22mA
ACCESSORIES	Standard Accessories to be supplied with the equipment	AC Adapter, User Manual, Warranty Card
	Carry Case	Yes
SERVICE	<b>Warranty (Year)</b>	1
CERTIFICATION	ISO / CE/FCC/Rohs/Others	Yes
TEST REPORT DETAILS	Availability of Test Reports from Central Govt/NABL approved/ ILAC accredited lab to prove conformity to the specification (Test Reports are to be furnished when demanded by the buyer)	