

Comes with our own android app GeoMaster Survey App



MULTI CONSTELLATIONS TRACKING

184 Tracking channels, supports GPS, Beidou, Glonass, Galileo etc.

RUGGED DESIGN

Rugged housing with IP67 dust proof & water proof design. It can survive 2m pole drop and 1.2 m free fall to concrete.

EASY TO USE

Compact size along with very easy app interface.

HIGH LEVEL ACCURACY

Provides centimeter level accuracy no matter where you are.



DATASHEET



Performance Specifications

Satellite Signal Tracking

184 channels for simultaneously tracking satellite signals

Satellite / Constellations Tracked

GPS	L1, L2, L2C, L5
GLONASS	L1, L2
GALILEO	E1, E5a, E5b
Beidou	B1, B2, B3
BeiDou Global Signal	B1C, B2a
QZSS	L1, L2
SBAS	GAGAN

Positioning Performance & Accuracy

Code Differential GNSS Positioning

Horizontal	0.25 m + 1 ppm *	* Base Line Distance	e [RMS]
Vertical	0.40 m + 1ppm *	^k Base Line Distance	e [RMS]

Static GNSS Surveying

S	tatic and Fast Static Accuracy			
	Horizontal	1 cm + 1 ppm *	Base Line	Distance [RMS
	Vertical	1 cm + 1 ppm *	Base Line	Distance [RMS

Post Processed Kinematic [PPK] GNSS Surveying

Horizontal	1.0 cm + 1 ppm * Base Line Distanc	e [RMS]
Vertical	1.5 cm + 1 ppm * Base Line Distance	e [RMS]

Real-Time Kinematic (RTK) Surveying

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Horizontal1 cm + 1 ppm RMS
Vertical1.5 cm + 1 ppm RMS
Network RTK Accuracy
Horizontal1 cm + 0.5 ppm RMS
Vertical1.5 cm + 0.5 ppm RMS
Standalone Accuracy
SBAS / GAGAN AccuracyUpto 0.6 m CEP
RTK Convergence Time< 10 s
Max. Update Rate7 Hz

Hardware

Physical

Dimensions	
Weight	600 gm
Operating temperature	10° C- + 65° C
Storage temperature	25° C- + 70° C
Humidity	95% or better
Ingress Protection Level	IP67 (dustproof & rainproof)
Shock and Vibration	Tested and meet the following environmental standards:
	signed to survive an accidental 2 m pole drop and m free fall to concrete
VibrationSı	urvives mechanical shock (MIL 810G test method)

Electrical

- -Power 7 V DC to 20 V DC external power input with over-voltage protection on Port 1(7-pin Lemo).
- -Rechargeable external 5000 mAh (7.4 V) Lithium ion smart battery
- -Operating times on external battery upto 18 hours on single recharge in network RTK.

Data Formats

Protocols......RTCM 3.0, RTCM 3.1, RTCM 3.2, RTCM 3.3, RTCM MSM, NTRIP, Multipoint RTCM, RTCM3Net

Interfaces

Wireless	Wi-Fi, BLE,	Radio,	NTRIP	(Requires Contro	oller)
Wired	• • • • • • • • • • • • • • • • • • • •			RS-232,	USB

Communication and data storage

- -Serial: RS-232 serial (7-pin lemo)
- -Radio Modem: Fully Integrated, sealed 450 MHz wide band receiver/transmitter with frequency range of 403 MHz to 473 MHz or 866 MHz.
 - Transmit Power:1 W
- Range:5 km
- -Data Storage: 8 GB internal and external (connected with Controller)
- -Wi-Fi: Ultra Low Power, supporting IEEE 802.11 b/g/n(2.4 GHz Wi-Fi).
- -Bluetooth: fully integrated, fully sealed 2.4 GHz communication port
- -Single RTK corrections from specific stations and also from nearest stations.
- -Network RTK corrections from VRS, FKP and MAC, iMAX solution through NTRIP protocol.



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