

Experience lightweight precision  
with the multifunctional G10 Pro GNSS Receiver.

INTRODUCING

# G10 GNSS RECEIVER

Portable Power,  
Unmatched Precision



GF GEOFUSION

# G10 GNSS RECEIVER

Introducing the G10 Pro GNSS Receiver, the latest cutting-edge technology from GEOFUSION. Compact, portable, and powerful, the G10 Pro features a new generation measurement engine, tilt measurement capability, and multi-constellation support for maximum precision. With an advanced Linux operating system, NFC, Bluetooth, and built-in 4G modem, the G10 Pro delivers fast, efficient performance. Its magnesium alloy structure ensures durability, while its lightweight design makes it easy to transport and use in any environment.



## CHARACTERISTIC

### Linux intelligent system

ARM Cortex-A7 + Linux, the intelligent system platform, brings efficient computing and unlimited expansion of product functions to users.

### Multi constellation

With its 1408 channels, G10Pro provides an excellent on board real time navigation solution with high accuracy. All GNSS signals (GPS, GLONASS, BDS, GALILEO, QZSS, SBAS and IRNSS) are included.

### Tilt Measurement

G10Pro has the IMU technology, Fast initialization and up to 60° inclination.

### Long Endurance

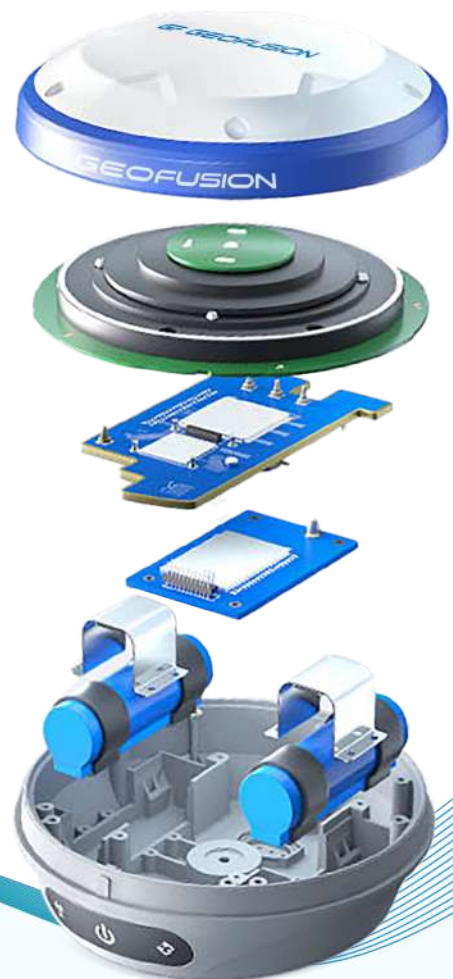
Built in high-capacity lithium battery ensures continuous working time of more than 16 hours under normal operation.

### 4G Modem

G10Pro has an internal 4G Modem that operates with more cellular network signals, a fast internet connection is guaranteed.

### Combined Antenna

The new four in one antenna integrates GNSS, WIFI, Bluetooth and 4G, with smaller volume and better signal.



G10 GEOFUSION

ITEM		SPECIFICATION	REMARKS
HARDWARE SYSTEM		ARM Cortex-A7 1.8GHz	
OS		LINUX	
GNSS	GPS	L1C/A, L1C, L2P(Y), L2C, L5	PPP-B2b, PPP-E6, SBAS supported
	GLONASS	L1, L2, L3	
	BDS	B1I, B2I, B3I, B1C, B2a, B2b	
	GALILEO	E1, E5a, E5b, E6	
	CIZSS	L1, L2, L5	
	SBAS	L1	
	NavIC (IRNSS)*	L5*	IRNSS supported
	Channel	1408	
	Data format	NMEA-0183	
	Correction I / O Protocol	RTCM 2.X, RTCM3.X	
	Data update frequency	5Hz(Typ)20Hz(max)	
	Recapture Time	<1s	
	Cold Boot	<30s	
POSITIONING ACCURACY	Single (RMS)	Horizontal: 1.5m    Vertical: 2.5m	
	DGPS(RMS)	Horizontal: 0.4m    Vertical: 0.8m	
	RTK(RMS)	Horizontal: $\pm(8\text{mm}+1\text{ppm})$ Vertical: $\pm(15\text{mm}+1\text{ppm})$	
	Time Accuracy (RMS)	20ns	
	Static Accuracy (RMS)	Horizontal: $\pm(2.5\text{mm}+0.5\text{ppm})$ Vertical: $\pm(5\text{mm}+0.5\text{ppm})$	
	Speed Accuracy (RMS)	0.03m/s	
	Tilt compensation Accuracy(within 60°)	$\leq 2\text{cm}$	
SYSTEM	Bluetooth	BR+EDR+BLE	
	WIFI	802.11 b/g/n	
	Network	LTE FDD: B1/2/3/4/5/7/8/12/13/18/19/20/25/26/28 LTE TDD: B38/39/40/41 WCDMA: B1/2/4/5/6/8/19 GSM: B2/3/5/8	
	Data Radio	Frequency: 410~470MHz Protocol: TRIMTALK, TRIMMK3, SOUTH, TRANSEOT RF transmit power: 0.5W/1.5W Air baud rate: 9600 / 19200bps	
	Storage	32GB Storage	
INDICATOR	Power Indicator	Show power status	
	Satellite Indicator	Show position status	
	Data link Indicator	Show differential signal status	
BATTERY	Battery	3.7V, 9600mAh	
	Work time	More than 16 hours (Typical, Rover, GSM)	The static working mode supports continuous data collection for 24 hours under full power

ITEM		SPECIFICATION	REMARKS
HARDWARE SYSTEM		ARM Cortex-A7 1.8GHz	
	Charge	MTK PE+1.1 / 2.0 9V/2A USB PD 12V/1.25A 5V/3A	Support fast charging adapter and adaptively and dynamically adjust charging current
ENVIRONMENTAL	Work Temperature	-20°C ~ +60°C	
	Storage Temperature	-40°C ~ +85°C	
	Shock	Withstand 1.5M pole drop	
	Protection	I P68	
PHYSICAL	Material	Magnesium alloy main body, ABS/PC top cover	
	Dimension	147.9mm* 68mm	
	Weight	≤0.90kg	
A FULL SET	G10Pro Device	1 SET	
	U-SB power adapter	1 PCS	
	Type-C to Type-C	1 PCS	
	Radio Antenna	1 PCS	
CERTIFICATION	Regulatory Compliance	NGS, CE, IGS, FCC. KC	

\* Manufacturers may update parameters at any time, please refer to the latest product information.





©2024 Copyright Aryan Hi-Tech Surveying Systems Pvt Ltd



**Aryan Hi-Tech**

*A promise to serve you **Better***

ARYAN HI - TECH SURVEYING SYSTEMS PVT LTD  
G1,484/485, Dal Mill Road, Uttam Nagar West,  
New Delhi, 110059, Delhi, India



Feel free to connect us ☎ 971 635 4846

🌐 [www.geofusion.in](http://www.geofusion.in)