

H68G GNSS RECEIVER

H68G is a mini portable multi-function GNSS receiver, a new generation of measurement engine, supports tilt measurement, built-in 4G full Netcom, Bluetooth, WIFI and digital radio, adopts a new design, magnesium alloy structure, Linux operating system, is a The ultimate lightweight, full-featured, and portable geodetic GNSS receiver.



Linux smart system

Linux+Qualcomm MDM9628 Cortex-A7 The intelligent system platform brings users efficient computing and unlimited expansion of product functions.

Full system full frequency point GNSS receiver

The receiver integrated high-precision positioning module, support BDS B1I、B2I、B3I、B1C、B2a、B2b, GPS L1C/A、L1C、L2P(Y)、L2C、L5, GLONASS E1、E5a、E5b、E6, Galileo E1、E5a、E5b、E6, SBAS L1, QZSS L1、L2、L5、L6, Full system full frequency signal reception and solution

Tilt Survey

Built-in intelligent high-precision inertial navigation module, real-time tilt compensation, let RTK measurement say goodbye to "flying spots"(optional)

4G full Netcom

The 4G full Netcom solution based on Linux platform fully supports China Mobile/Unicom/Telecom 2/3/4G network, with better compatibility, stronger signal and more stable connection.

Combination Antenna

The new four-in-one antenna integrates GNSS, WiFi, Bluetooth, and 4G, with smaller size and better signal

Long battery life

The built-in large-capacity lithium battery ensures that under normal operation, the continuous working time exceeds 24 hours (static data collection mode).

characteristic

- Linux+QualcommMDM9628 Cortex-A7 Intelligent system platform
- Support BDS、GPS、GLONASS、Galileo、QZSS 和 SBAS
- Centimeter-level positioning
- Support tilt measurement, within the range of tilt 60°, the positioning accuracy is less than 2cm
- Complete data link, support 4G, bluetooth, wifi and radio, work more flexible
- Built-in high-capacity lithium battery, long battery life
- Industrial-grade design, solid magnesium alloy shell, in line with IP67 design requirements, safe and reliable

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configure	content	note
Hardware platform	Qualcomm MDM9628 Cortex-A7	
software platform	Linux	
channels	800 HemisPhere P20	
GNSS	GPS	L1C/A、L1C、L2P(Y)、L2C、L5
	GLONASS	L1、L2
	BDS	B1I、B2I、B3I、B1C、B2a、B2b
	GALILEO	E1、E5a、E5b、E6
	QZSS	L1、L2、L5、L6
	SBAS	L1
	Data format	NMEA-0183
	Correction I/O Protocol	RTCM 2.X、RTCM3.X
	Data update rate	5Hz
	recapture time	<1s
	Cold start	<40s
positioning accuracy	single point positioning (RMS)	horizontal: 1.5m vertical: 2.5m
	DGPS (RMS)	horizontal : 0.4m vertical : 0.8m
	RTK (RMS)	horizontal : ± (8mm+1ppm) vertical : ± (15mm+1ppm)
	time precision (RMS)	10ns
	static precision (RMS)	horizontal : ± (2.5mm+1ppm) vertical : ± (5mm+1ppm)
	Speed accuracy (RMS)	0.03m/s
	Tilt compensation accuracy (within 60°)	<2cm
System platform	Bluetooth	V2.1+EDR / V4.0 dual mode
	WIFI	802.11 b/g/n
	NETWORK	All Netcom LTE FDD: B1/B3/B5/B8 LTE TDD: B38/B39/B40/B41 TD-SCDMA: B34/B39 CDMA: BC0 WCDMA: B1/B8 GSM: 900/1800MHz
	digital radio	Transceiver integrated radio frequency: 410~470MHz protocol: TRIMTALK、TRIMMK3、SOUTH、TRANSEOT air baud rate : 9600、19200
	storage	32GB, Available space 24GB
indicator light	power	Power indicator
	satellite light	Blinking means valid positioning

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	data link light	Flashes when there is a difference	
Charging batteries	spec	3.7V, 9600mAh	
	battery life	More than 19 hours (in the mobile network data link mode)	In static working mode, it supports continuous data collection for 24 hours under full power
	charging	Support MTK PE+ 1.1/2.0 9V/1.6A Support USB PD 12V/1.25A Support 5V/2A	Support fast charging adapter, adaptive and dynamic adjustment of charging current
Environmental characteristics	Operating temperature	-20°C~+60°C	
	storage temperature	-40°C~+85°C	
	Seismic	normal temperature resistance to 1.5 meters drop with the pole	
	defense level	IP67	
physical properties	Material	Magnesium alloy shell + ABS/PC plastic top cover	
	Size	Φ147.9mm*68mm	
	Weight	≤0.75kg	
accessories	GNSS receiver	1pc	
	5V/2A USB Power Adapter	1pc	
	USB A To Type-C data cable	1pc	
	Radio antenna	1pc	