



M1G2 GNSS Receiver

M1G2 high-precision GNSS positioning terminal has the characteristics of small size, complete functions, and rich interfaces. It is convenient for vehicle monitoring, engineering detection, mechanical control, and automatic data acquisition.

Linux Platform

Support multiple processes. Can configure and manage receiver from smart Web user interface.

Rich interfaces

Support RS232/485, PPS, USB, Event, CAN...Can be used for deep development.

Local Coordinate Output

Build-in coordinate converter to make it possible to output local coordinate.

Network

The 4G network module and WIFI to ensure the stable and fast connection.

L-Band

Support ATLAS to achieve centimeter accuracy standby.

Product Specification

GNSS Performance			
	PRO		STD
Channel	555	Channel	72
Satellite Tracking	GPS: L1 C/A, L1C, L2C, L2P, L5	Satellite Tracking	GPS: L1C/A
	GLONASS: L1 C/A, L2 C/A, L2P, L3, L5		GLONASS: L1OF
	BeiDou: B1,B2		BeiDou: B1
	Galileo: E1, E5 AltBOC, E5a, E5b		Galileo: E1B/C
	NavIC: L5		-
	SBAS: L1,L5		SBAS: L1,L5
	QZSS: L1 C/A, L1C, L2C, L5		QZSS: L1C/A: WAAS, EGNOS, MSAS, GAGAN
Update rate	5Hz	Update rate	4Hz
Timing accuracy	20ns RMS	Timing accuracy	30ns RMS
RTK accuracy	10mm + 1ppm	RTK accuracy	3.0m (Float)
SBAS accuracy	60cm RMS	SBAS accuracy	Horizontal: 2.0m
DGPS accuracy	40cm RMS		Vertical: 2.5m
Velocity accuracy	<0.03m/s RMS	DGPS accuracy	-
Heading accuracy	2m baseline: 0.08 degrees	Cold start	<30s
	4m baseline: 0.05 degrees	Warm start	<2s
Hot start	<19s	Hot start	<1s
Reacquisition	<1s	Max Elevation	500m/s
Max Speed	1,850km/h	Max speed	500m/s
System		Communication	
Operation system	Linux	Network Modem	Integrated 4G Modem
Processor	AM335X Sitara ARM Cortex-A8	Bluetooth	V2.1+EDR / V4.1, Class2
Internal memory	512MB RAM+8GB storage	WLAN	WIFI IEEE 802.11 b/g/n
Expanded memory	Up to 32GB	UHF	TX/RX: 410MHz – 470MHz
Radio Modem	TRM101 (Channel 555)		Transmit Power: 1 W
Electical		Ports	D-SUB 26 interface: 2 x RS485 port , 1 x RS232 port , 1 x USB2.0 port (OTG supported) 1 x 1PPS port , 1 x EVENT interface 1 x CAN interface, 1 x 100M ethernet port
Power input	10 to 28V DC		PWR: 2-pin LEMO for power input
Physical & Environmental			GNSS1: TNC port for main GNSS antenna
Weight	550g		GNSS2: TNC, TNC for auxiliary GNSS antenna (Channel 555)
Size	150mm*105mm*34mm		LTE: SMA, 4G antenna port
Operation temperature	-30 C to +65 C		UHF: external UHF antenna port
Storage temperature	-40 C to +80 C	Others	SIM card slot, TF card slot
IP Level	IP67		
Shock	Withstands 1.5m drop on concrete		
Vibration	50Hz, 0.5mm, 5mins		

Illustrations and technical specifications are subject to change without notice.



Shanghai e-Compass Science & Technology Co., Ltd
Lianhang Rd, Pujiang Town, Minhang District, Shanghai, China

Tel: +86 21 54467215
Email: info@esurvey-gnss.com
Web: www.esurvey-gnss.com
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