



M1G2

GNSS Receiver

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

Linux Platform

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

Rich interfaces

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

Local Coordinate Output

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

Network

The 4G network and WiFi modules to ensure a stable and fast connection.

Product Specification

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

Illustrations and technical specifications are subject to change without notice.

