M1G2 Receiver

User Manual



Edition: V2.0_202011

Statement

Please read carefully:

Thank you very much for purchasing our product. For instructions on how to use this product, please be sure to read the user manual.

This user manual is for your receiver only. If your receiver does not match the situation in the user manual, the actual situation of the receiver shall prevail.

The information in this document is subject to change without notice; We reserve the right to change or improve its products as well the content without any obligation to notify individual or organization of such changes or improvements. For any questions, please contact the customer service center or contact our authorized dealer.

Customer safety is important. Please read carefully the precautions and instructions in the user manual. To avoid accidental damage, use only original supplied parts. If you do not use the system or connect incompatible accessories in accordance with the correct procedures, it may cause damage to the equipment and may even endanger others and your safety. In this regard, the company does not assume any responsibility



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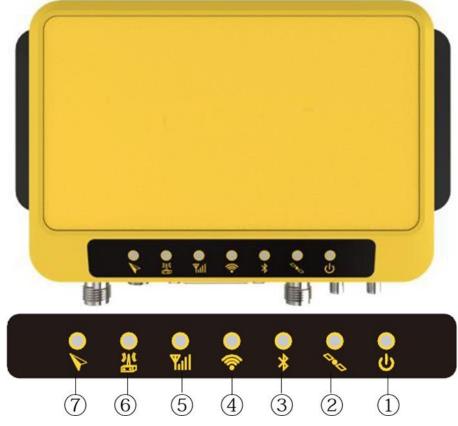
1. Product Description

The device is a high-precision GNSS receiver for engineering, monitoring, and other applications. The product is suitable for project applications such as vehicle monitoring, engineering inspection, and automated data collection. This chapter provides basic information to help you become familiar with this GNSS receiver.

Main features:

- Robust housing
- Support 4G LTE, UHF and Bluetooth / WLAN data link
- Easy host configuration via Web UI and remote server
- Adaptable power requirements to various environments
- Smart chain connection
- IP67

1.1 Top View



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1	Power	Red	Lights up red when power is on, lights off when power is off, no alarm status (cannot turn on below 9V, automatically turns on above 9V);
			At single point solution, flashing yellow light at 1s interval;
2	Satellite	Yellow	At floating point solution / fixed solution, the satellite light is always on;
			Invalid solution / below 4 satellites, satellite lights are off;
3	Bluetooth	Blue	Bluetooth connection, Bluetooth light is always on; off when Bluetooth is disconnected;
4	WiFi	Green	Client / AP is steady green when turned on;
6	4G Network	Green	Lights green when 4G is turned on, and turns off when 4G is turned off;
6	Radio	Green	Lights up green when the function is on and off when the function is off;
1	Heading	Green	Lights up green when the function is on and off when the function is off;

1.2 Front View



1	GNSS2	TNC, External antenna connector
2	PWR	2 core LEMO Connector, power interface

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		2 RS485 Serial port
		1 RS232 Serial port
		1 USB2.0 Port (supports OTG)
8	D-SUB 26	1 1PPS Output Interface
		1 EVENT Port
		1 CAN Port
		1 100M Ethernet Port
4	GNSS1	TNC, External GNSS Main antenna interface
6	LTE	SMA, 4G Antenna Port
6	UHF	External UHF Antenna interface

1.3 Right side sight



2 SIM Card slot Standard size SIM card slot

1.4 Left side sight



1.5 Sight from the Bottom



Survey2. Technical Specifications

	1		
GNSS Performan			
	PRO		STD
Channel	555	Channel	72
Satellite Tracking	GPS: L1 C/A, L1C, L2C, L2P	Satellite Tracking	GPS : L1C/A
	GLONASS: L1 C/A, L2 C/A, L2P		GLONASS: L1OF
	BeiDou: B1,B2		BeiDou: B1
	Galileo: E1, E5b		Galileo: E1B/C
	Navlc: L5		-
	SBAS: L1,L5		SBAS: L1,L5
	QZSS: L1 C/A, L1C, L2C		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		Communicatio	n
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 in	terface: 2 x RS485 port,1 x RS232 port,
Power input	10 to 28V DC		1 x USB2.0 port (OTG supported)
Physical & Enviro	onmental		1 x 1PPS port, 1 x EVENT interface
Weight	550g		1 x CAN interface, 1 x 100M ethernet port
Size	150mm*105mm*34mm	PWR: 2-pin	LEMO for power input
Operation temperature	-30°C to +65°C	GNSS1: TN	C port for main GNSS antenna
Storage temperature	-40°C to +80°C	GNSS2: TNO	C, TNC for auxiliary GNSS antenna (Channel 555)
IP Level	IP67	LTE: SMA, 4	4G antenna port
Shock	Withstands 1.5m drop on concrete	UHF: extern	al UHF antenna port
Vibration	50Hz, 0.5mm, 5mins	Others	SIM card slot, TF card slot

Illustrations and technical specifications are subject to change without notice.

2.1	2.1 Port			
•	D-SUB 26	2 RS485 Port		
		1 RS232 Port		
		1 USB2.0 Port (Support OTG)		
		1 1PPS Output Interface		
		1 EVENT Port		
		1 CAN Port		
		1 100M Ethernet interface		
•	PWR	2 core LEMO power Connector Port		
•	GNSS1	TNC, External GNSS Main antenna Port		
•	GNSS2	TNC, External antenna connector		
•	LTE	SMA, 4G Antenna Port		
•	UHF	External UHF antenna interface		
•	SIM	Standard size SIM card Slot		
•	TF card	MicroSD Slot		

2.2 Data Record

• Storage

Device	description	
In Built storage	8G	
External storage	MicroSD card	

- Data Types: Binary, RINEX, BINEX
- Transmission rate: 2S, 5S, 10S, 15S, 30S, 60S 1Hz, 2Hz, 5Hz, (Optional 10Hz, 20Hz)

2.3 Data Flow

•	Stream number	One NTRIP Server stream, one NTRIP Client stream, 5 Serial port (TCP / UDP) flow
•	Stream port	WIFI, Wireless, UHF, Ethernet, COM1, COM3
•	Navigation output	GGA, ZDA, GSA, GSV, GST, VTG, RMC, GLL
•	Differential output	RTCM 2.3, 3.0, 3.2, CMR, CMR+, DGPS, BINEX, RAW

2.4 User Interface

		7 LED Lights, showing power, satellite, Bluetooth
•	LEDs	<code>respectively</code> WIFI, <code>network</code> , <code>radio</code> , and <code>heading</code> status

2.5 System Configuration

•	operating system	Linux
•	Bluetooth	Bluetooth 2.1+EDR, V4.0
•	WIFI	802.11 b/g/n, Hotspot/client mode
•	Ethernet	100M

2.6 The internet	
System	Frequency
LTE FDD	B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/B19/B20/B25/B26/B28
LTE TDD	B38/B39/B40/B41
UMTS	B1/B2/B4/B5/B6/B8/B19
GSM	B2/B3/B5/B8

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2.7 Internet service	
• NTRIP	Server / client
Remote management	GNSS.NET Remote configuration
FTP server	For data download
E-mail alert	Used for low storage and other warning messages

3. Operating instructions

3.1 Insert the card

If you need a SIM card, please insert the SIM card before turning on the device. Please see the figure below. Firstly, open the card holder, then insert the SIM card and micro SD card as a note in the card holder.



3.2 Connect external accessories

In order to achieve the working state, the device needs to be connected to an external antenna, which can be connected to the GNSS 1 / 2.

If you need to power on the device, it must be connected to a 2-pin power cable.

If you need a SIM card, insert SIM card and connect the 4G antenna to the LTE interface.

If you need to use the radio, you should connect the radio antenna to the radio interface.



3.3 Power On / Off

Once device is connected to the 2-pin power cable, it will automatically power on after the power has been turned on.

After power is on, the indicator will show the devices status. For example, the power light is red. If you turn on WIFI, WIFI will turn green. When the device has no power supply, it will automatically shut down.

4. Web UI

The device has Web user interface function, you can connect to device with WIFI to log into the Web interface to view device information and settings. The WIFI hotspot name is the serial number of the device. Enter the IP address: 192.168.10.1. When the user logs in, a window will pop up, and the account and password will need to be filled in.

- Username: admin
- Password: password.

7-1		
24	Sign In	
	Username	
	Password	
	Log in	
	English •	

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4.1 Summary

After verifying the login information, you can log in to the device web interface. The homepage content includes station name, expiration date, running time, equipment model, equipment serial number, GNSS model, GNSS serial number, radio model, radio serial number, and receiver location information. As shown below:

M1G2 Reference Station Summary System Information Station Name Test System Information Expire Date 20200720 Run Time | GPS Status 3 min | Satellites Data Transmission M1G2 **Device Model** | Data Recording M1G2292000015 Device Serial Configuration GNSS Model OEM718D **GNSS Serial** BMNM19280318X | Reference Station Radio Model **TRM101** | GNSS Configuration Radio Serial | Tracking Satellites | Convert Coordinate Network Longitude 121°31' 49.38446" 31° 5' 3.87880' Latitude | Dynamic DNS 63.214 m Height | Ntrip Server **GNSS** Status Recording Local Time 2020-04-26 15:08:39 | Port Configuration | Trace back Settings 42.194 MB / 223.866 MB (18%) Internal Memory Alerts 6.743 GB / 6.743 GB (99%) Data Memory SNMPD / (0%) External Memory Firewall **TF Memory** / (0%) | Registration Download System Management Battery Power -% Power Source **Configuration Set** Language English • Logout

Our survey

4.2 System Information

The system information interface will display the reference station name, device model, serial number, system version, application version information, built-in OEM Board information, built-in station information, storage parameter information.

man		
immary		
ystem Information	Station Name	Test
System Information	Expire Date	20200720
GPS Status	Time Zone	GMT+08:00
Satellites		
Data Transmission	Davies Medal	1400
Data Recording	Device Model Device Serial	M1G2 M1G2292000015
Configuration	IMEI	867698040586110
Reference Station	Hardware Version	M1G2-V4.11
GNSS Configuration	BOOT Version	0111
	OS Version	4.1.6-0113-M1G2
Tracking Satellites	APP Version	2.12(200108)
Convert Coordinate	Web Version MCU Version	2.12 0205
Network	MCO Version	0203
Dynamic DNS		
Ntrin Server	GNSS Model	OEM718D
Tracking Satellites	GNSS Model	BMNM19280318X
Convert Coordinate	GNSS Hardware Version	OEM718D-1.01
Network	GNSS Firmware Version	OM7MR0500SN0032
Dynamic DNS	GNSS Functionality	CDDRYNTBN (GPS+Glonass+BeiDou,20Hz)
Nitrin Server		
Tracking Satellites	<u>e</u>	
Convert Coordinate	Radio Model	TRM101
Network	Radio Serial	0.4
Dynamic DNS	Radio Firmware Version Radio Channel	0.1 2 [440.125 MHz, H]
Ntrip Server	Radio Protocol	South 9600
Recording		
Port Configuration		
	DHCP	
Trace back Settings	MAC address	D4:53:83:60:2F:73
Alerts	IP	192.168.40.144
SNMPD	Mask	255.255.255.0
Firewall	Gateway	192.168.40.10
Registration		
Download		
System Management	Internal Memory	42.194 MB / 223.866 MB (18% Free)
	Data Memory	6.743 GB / 6.743 GB (99% Free)
Configuration Set	External Memory	/ (0% Free)
anguage English •	TF Memory	/ (0% Free)
ogout		
		Taxa .
	Battery Power	-%
	Power Source	External

4.3 GNSS Status

The status page shows the current device positioning status, base station coordinates,

weather meter type and antenna type usage information.

M1G2 Reference Station

System Information	Local Time	2020-04-26 15:10:44 (GPS Tim
System Information	Satellites	2020-04-20 15.10.44 (GPS 111)
GPS Status	Longitude	121°31' 49 37925"
Satellites	Latitude	31° 5' 3.87516"
	Height	63.400 m
Data Transmission	Status	Single
Data Recording	PDOP	1.231
Configuration	HDOP HRMS	0.640
Reference Station	VRMS	1.719 3.125
GNSS Configuration	VICING	5.125
Tracking Satellites		
Convert Coordinate	Station Number	0111
Network	Base Longitude	113°21' 59.82440"
Dynamic DNS	Base Latitude	23° 7' 35.67690"
	Base Height	30.000 m
Ntrip Server		
Recording		
Port Configuration	MET Type	ZZ11A
Trace back Settings	Pressure Temperature	- hPa - °C
Alerts	Humidity	- %RH
SNMPD		
Firewall		
Registration	Antenna Type	HX-GG486A
Download	Antenna Height	0 mm
	Measurement Mode	Antenna Phase Center
System Management		
Configuration Set		
Language English 🔻		

4.4 Satellite Information

On this page you can see satellite maps and satellite lists.

Summary						
System Information						
System Information	Satellites Table	Satellite	es Skyplot			
GPS Status						
Satellites	Туре	SV	Elev.[Deg]	Azim.[Deg]	L1/B1/E1[dBHz]	L2/B2/E5A[dBHz]
Data Transmission	GPS	1	69.44	38.83	51	51
	GPS	3	29.64	139.98	44	44
Data Recording	GPS	7	36.73	209.71	47	47
Configuration	GPS GPS	8	23.14 40.61	66.99 43.61	45 49	40
Reference Station	GPS	11	40.61	283.68	49	41
GNSS Configuration	GPS	22	38.28	108.38	40	40
	GPS	28	40.86	322.53	48	40
Tracking Satellites	GPS	30	44.77	254.16	49	49
Convert Coordinate	GLONASS	14	50.05	170.80	48	42
Network	GLONASS	15	67.30	305.60	44	40
Dynamic DNS	GLONASS	17	56.45	336.60	40	38
Ntrip Server	GLONASS	18	33.92	263.33	41	38
	GLONASS	24	23.02	34.88	37	35
Recording	BDS	1	46.37	140.41	46	46
Port Configuration	BDS	2	35.00	235.17	41	45
Trace back Settings	BDS	3	52.33	200.79	47	46
Alerts	BDS BDS	4 5	35.65 14.22	122.19 254.31	43 39	44 43
SNMPD	BDS	7	79.80	104.30	48	45
	BDS	8	79.50	219.19	40	40
Firewall	BDS	10	70.27	322.36	45	48
Registration	BDS	12	23.84	264.44	41	46
Download	BDS	13	43.76	219.39	45	44
System Management	BDS	19	17.52	99.94	43	0
Configuration Set	BDS	24	33.60	308.21	47	0
	BDS	26	61.67	238.04	51	0
Language English 🔻	BDS	29	15.01	58.09	43	0

4.5 Data transmission

This page displays the current data transmission status. Click [Edit] to set the transmission

parameters.

I CA REFERENCE	Station										
Immary											
stem Information											
stem Information System Information				D T			01.17			0 1	
	Name	Server Address	Mountpoint	Data Type	Interval	Status	Start Time	Data Size		Operatio	
system Information SPS Status	Name 01	Server Address 183.60.177.84.2012	Mountpoint TEST1	Data Type RTCM3	Interval 1S	Status idle	Start Time	Data Size 0 B	Edit	Operatic Start	Stop
system Information							Start Time				

When you click "New Transfer", this page will pop up to prompt you to add a connection.

	Ntrip Server
Add Connection ▼	
Name	
Server Address	
Server Port	
Version	V1.0 V
Password	
Mountpoint	
Data Type	● RTCM3.0 ○ RTCM2.3 ○ CMR ○ CMR+ ○ RTCM3.2 ○ DGPS ○ RAW
Interval	1HZ ▼
Auto Connect	○ Enable
-	
Submit	Reload



4.6 Data Records

Data records are used to store static data for data analysis, static results, and other postprocessing results. On this page, the user can view the current data recording status and click [Edit] to set the recording parameters.

Schedule Name	Interval	Path	Status	Start Time	Duration Tme	File Size		Operation	
Test	1S		idle	undefined	60 min	0 B	Edit	Start Stop	
New Session									

	Raw Data Recording Configuration
Compress(Global) : Off ▼ Data Type : RANGE ▼ Add Recording ▼	
Schedule Name	
Path Type	Session/Date
File Name	ssssdddf.yyt
File System	/Internal V
Interval	1HZ V
Duration Tme	1 hour 🔻
Pool	Off •
Auto	Enable Disable
Integral Point Record	○ Enable
File Push	Enable Isable
	Push Parameters
Protocol	● FTP ○ GEO ○ RADIO
FTP Server Address	
FTP Server Port	
FTP User	
FTP Password	
Remote Directory	
Convert	○ Enable
Submit	Reload

4.7 Configuration

4.7.1 Base station settings

This page mainly sets the reference station name, mark number, receiver number, country code and time zone, etc.

Observer Name	OBSERVER
Agency Name	AGENCY
Station Name	Test
Marker Number	0 •
Marker Type	GEODETIC 🔹
Receiver Number	0 🔻
Country Code	CHN - China 🔹
Site ID	
Time Zone	GMT+08:00 V
HTTP Server Port	80

Working mode: Set device to reference station or mobile station.

Working Mode	Base Interview Rover

Antenna parameters: Select the corresponding antenna type and then enter the actual antenna height of the station.

Antenna Type	HX-GG486A 🔻
Antenna Serial	
R(mm)	0
H(mm)	0
HL1(mm)	116
HL2(mm)	142

Reference station coordinates: If you don't need a known coordinate to start the reference station, click "Get the current coordinate" as a reference Check the coordinates.



However, if you need a known coordinate to start the reference station, follow the correct

format to enter the known point coordinates.

Coordinate System	Geodetic Coordinates (B,L,H) 🔻	
Base Longitude	113 ° 21 ' 59 . 8244004 "	
Base Latitude	23 ° 7 ' 35 . 6769012 "	Load Current Position Cancel Base Position
Base Height(m)	30.000	Cancel Dase Position
Height of the point on the ground(m)	0	
Antenna Height(mm)	0	HLL HLZ
Measurement Mode	Antenna Phase Center 🔻	Height- (ARP) Height of the point on the ground-
Submit	Reload	

4.7.2 Satellite system settings

On this page, you can set the information of tessellate system and the cut off angle height.

	GNSS Configuration
Cutoff Angle	10
1PPS	Enable Disable
Clock Switch	○ Enable
Smooth Pseudorange	○ Enable
BDS	Enable O Disable
GPS	Enable O Disable
GLONASS	Enable Disable
Galileo	• Enable O Disable
QZSS	Inable Disable
SBAS	• Enable O Disable
RTK MODE	● NORMAL ○ Extra safe
RTK dynamics mode	STATIC O DYNAMIC
Submit	Reload

4.7.3 Satellite tracking settings

On this page, you can choose the satellite you want.

			Trac	cking Satellites			
GPS	Don't track	Glonass	Don't track	BeiDou	Don't track	Galileo	Don't track
G1		R1		C1		E1	
G2		R2		C2		E2	
G3		R3		C3		E3	
G4		R4		C4		E4	
<i>.</i> GR		.98		SR.		JFR	
G13		R13		C13		E13	
G19		R19		C19		E19	
G20		R20		C20		E20	
G25		504	_	C25		E25	
G32						E32	
						E33	
						E34	
						E35	
						E36	

Select All Unselect All

Submit

4.7.4 Coordinate conversion parameter settings

This page is used to convert coordinate parameters.

	Cor	ivert Coordinate	
Enable Output	Enable O Disable		
	De	stination Datum	
Datum	WGS84 V		
Semi-Major Axis(a)	6378137		
Bot-Flattening(1/f)	298.257223563		
	S	even Parameter	
Use Seven Parameter			
dX(m)	0		
dY(m)	0		
dZ(m)	0		
RotateX(")	0		
RotateY(")	0		
RotateZ(")	0		
Scale(ppm)	0		
	Pro	jection Parameter	
Projection Type	Gauss	T	
CenterMeridian(°)	0.000000000		
Scale	1		
North(m)	0		
East(m)	0		
Ref-Height	0		
Base-Lat(°)	0		
Base-Lon(°)	0.000000000		
Parellel1	0		
Parellel2	0		
	Four Parameter		
Use Four Parameter			
dX(m)	0		
dY(m)	0		
Rotate(")	0		
Scale(ppm)	0		
Submit		Reload	



4.7.5 Network settings

This page is mainly set for the data chain mode used by device.

Priority Network	Wired Net O Wireless No.	at O Mohile Net
Current Network	WAN	
Default Gateway	192.168.28.253	
DNS	114.114.114.114 8.8.8.8	T
PING	Timeout : (s) Counts	
		Network Settings
Wired Net	WAN	
DHCP	Enable Disable	
IP	192.168.28.59	
Mask	255.255.255.0	
Gateway	192.168.28.253	
MAC address	04:79:B7:E3:E1:CE	
Link Status	Link disconnected	
Status	Route disconnected	
Wireless Net MAC address SSID	Client Hotspot Dis D4:53:83:60:2F:73 M1G2292000015	able
Password	12345678	
IP	192.168.10.1	
Mobile Net © Enable Disable FTP Server Settings		
Anonymous Access	Disable •	· · · · · · · · · · · · · · · · · · ·
User	123	
Password		
1050010		NTP

4.7.6 Dynamic domain name

This page is mainly used to set dynamic domain name, service, host name, user name, password and so on.

Dynamic DNS		
Dynamic DNS	Enable Disable	
Service Provider	oray.com 🔹	
Host Name		
Username		
Password		
Submit	Reload	

4.7.7 Data transfer settings

In this page, you can set the transfer content and server for reference station.

Note: Passwords in this page can be entered arbitrarily, but cannot be empty.

Ntrip Server		
01		
183.60.177.84		
2012		
V1.0 ▼	4	
TEST1		
● RTCM3.0 ○ RTCM2.3	○ CMR ○ CMR+ ○ RTCM3.2 ○	DGPS O RAW
1HZ 🔻		
 Enable Disable 		
Delete	Reload	Cancel
	01 183.60.177.84 2012 V1.0 • ••• TEST1 • RTCM3.0 O RTCM2.3 1HZ • O Enable • Disable	01 183.60.177.84 2012 V1.0 ▼ TEST1 ● RTCM3.0 ○ RTCM2.3 ○ CMR ○ CMR+ ○ RTCM3.2 ○ 1HZ ▼ ○ Enable ● Disable

• When select [Automatic Connection] to open, after the network is disconnected, it will automatically connect the data transmission, otherwise it needs to manually start the transmission.

- Before setting the parameters, please go back to the reference station page to confirm that the base station coordinates are correct. If you need to start with a known coordinate, please enter a known coordinate.
- When the parameter settings are completed, click submit and the data transmission opens. In the status bar, you can see that the data transmission status is shown as "being transferred ". the host front panel differential transmission indicator starts flashing. The above process is to establish a base station transmission mode.

4.7.8 Data record

In this page, you can set up compressed storage, data format, time period name, path form and so on, and you can also choose the protocol.

Raw Data Recording Configuration		
Compress(Global) : Off 🔻		
compress(Giobai) . On .		
Data Type : RANGE		
Recording - Test V		
Schedule Name	Test	
Path Type	Session/Date	
File Name	ssssdddf.yyt 🔹	
File System	/Internal 🔻	
Interval	1HZ 🔻	
Duration Tme	1 hour 🔻	
Pool	Off 🔹	
Auto	Enable Disable	
Integral Point Record	O Enable Disable	
File Push	Enable Disable	
	Push Parameters	
Protocol	FTP GEO RADIO	
FTP Server Address		
FTP Server Port		
FTP User		
FTP Password		
Remote Directory		
L		
Convert	C Enable O Disable	
Submit	Delete Reload Cancel	

4.7.9 Port configuration

This page is mainly used to set up Bluetooth, Radio, COM1, COM3, NTRIP client, NTRIP

server, Socket 1, Socket 3, Socket 4, Socket 5.

I/O Configurat	ion :	
Bluetooth •		
Bluetooth		1
UHF	Bluetooth	Enable Disable
COM1	Function	NMEA(Output)
COM2	1 unction	I'mER(Output)
COM3		
Ntrip Client		GGA: 1HZ ▼ GSA: Off ▼ GSV: Off ▼ ZDA: Off ▼
Ntrip Caster	NMEA	RMC: Off ▼ VTG: Off ▼ GST: Off ▼ GLL: Off ▼
Socket 1		HDT: Off T HEADINGA: Off T
Socket 2		:
Socket 3		
Socket 4		
Socket 5	Submit	Reload

I/O Configuration : Bluetooth		
Bluetooth	Enable O Disable	
Function	NMEA(Output)	
NMEA	NMEA(Output) Off ▼ GSV: Off ▼ ZDA: Off RTK(Input) Off ▼ GST: Off ▼ GLL: Off ▼ RTK(Output) NGA: Off ▼ GLL: Off ▼	
Submit	Reload	

I/O Configuration :	
COM1 •	
COM1	Enable O Disable
Baud Rate	115200 🔻
Function	NMEA(Output)
	CMD(Input/Output) NMEA(Output) Dff ▼ GSV: Off ▼ ZDA: Off ▼
NMEA	RTK(Input) Dff V GST: Off V GLL: Off V RTK(Output) GA: Off V RAW(Output)
Submit	BINEX(Output) GPS(Input/Output) UHF(Input/Output) NtripDouble(Output)



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Reload

I/O Configuration :	
UHF •	
UHF	Enable O Disable
Radio Channel	2 V 440.125 MHz Default Frequency
Radio Protocol	South 9600 🔻
Radio Power	High 🔻
Channel Spacing	25 ▼
Function	RTK(Output)
Data Type	RTCM3.0 T
Interval	1HZ T
Submit	Reload
I/O Configuration :	

Ntrip Client	🖲 Enable 🔍 Disable	
IP:Port	183.60.177.84:2012	
Version	V1.0 T	
Mountpoint	TEST	Get Mountpoint
Upload GGA	10S T	
User	user	
Password	••••	
	·	

Submit

I/O Configuration :	
Ntrip Caster ▼	
Ntrip Caster	Enable Disable
Port	6070
Submit	Reload



I/O Configuration : Socket 1 •	
Socket 1	• Enable O Disable
Туре	TCP •
Mode	Server T
Port	6060
Function	RAW(Output)
Interval	1HZ T RANGE
Ephemeris Frequency	Off •
Submit	Reload

4.7.10 Reminder Settings

This page is mainly used to install e-mail, text messages, telephone numbers. If you

want to send message, you need to use the mobile network.

		ļ	lerts		
E-Mail Alerts	Enable Disabl	le			
SMTP Server		:	Encryption : C)ff ▼	
From E-Mail Address					
E-Mail Login Name					Test
E-Mail Login Password					
To E-Mail Address					
SMS Alerts	🖲 Enable 🔍 Disabl	le			
Phone Number			Test		
□ Temperature is above a limit 70 °C	Internal Disk	k space is clo	ose to be full (under	500Mb)	GNSS satellites drop below an amount 5
Difference between estimated coordinates and b coordinates over 40 m	ase				
Submit			Re	eload	

4.7.11 SNMP Proxy settings

When you come to SNMPD, you can see [Trap IP] and [Allow Access IP].

[Trap IP]: Receivers can specify some IPS and then automatically send information to those IPS.

[Allow Access IP]: Receivers can allow some devices to proactively obtain information about receivers through IP addresses.

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	SNMPD	
SNMPD	• Enable O Disable	
Trap IP		(Please separate by ';')
Allow Access IP		
Submit		Reload

4.7.12 Firewall Setting

On this page, you can choose whether to open a firewall.

	Firewall	
Network Services Filter	Enable O Disable	
Filter Table Type	Black List 🔻	
	White List Black List	
Source IP		Operation
Add		
Submit		Reload

4.7.13 Registration of Device

	M1G2292000015
Old AuthCode	39360B6510059CAD477BFF144BD46C71
Expire Date	20200720
Register Status	NORMAL
AuthCode	
Submit	Reload

4.7.14 Data Download

On this page, you can download observations and ephemeris.

Select	Name	Size	Creation Time	Modification Time	Operation
	INTERNAL	25.746M	-	-	FTP Push Package Delete
Select All	Package Delete	Selected Prev	1 (1/1) Next		



4.8 System Management

On this page you can set up online upgrade, remote debugging, view log, security.

Online Upgrade					
1. Upload File Cho	oose File No file chosen	Upgrade			
Remote Debug					
Enable Initial Enable Initial Enables	able				
Submit					
View Logs					
1. APP Log Dov	wnload View				
2. OS Log Do	wnload View				
3. Kernel Log Do	wnload View				
4. Audit Log Dov	wnload View				
Security					
Enable Login Au	uthentication				
Current User : admi					
Old Password :					
New Password :		Verify New Password	Cha	nge	
Enable Guest					
New Guest Passwo	rd :	Verify New Password		Change	
Self Test Res	et Device Freset OEM	Factory Reset Format Inte	rnal Disk		

4.9 Configuration set

You can set a profile on this page.

Config Files	Save config		Restore config	
System config	Download	Choose File	No file chosen	Upload
Service config	Download	Choose File	No file chosen	Upload
User config	Download	Choose File	No file chosen	Upload

4.10 Language

It can be seen that MG 10 S has four languages available. Russian, English, Simplified Chinese, Traditional Chinese.

Download	русский
System Ma	English 简体中文
Configurat	
Language	
Language	Linglish .



4.11 Logout

Sign In

Username

Password

Log in

English

When you click log out, you will exit and return to the page.

Warranty Policy The Guarantees Rights

■e-survey supports free exchange or refund within 7 days from the day when you have received the products, where the device appears "performance failure", which confirmed by e-survey repaircenter.

∎e-survey supports free maintenance or exchange within 15 days from the day when you have received the products, where the device appears "performance failure", which confirmed by e-survey repair center.

∎e-survey supports free maintenance or exchange the same type of device within one year from the day when you have received the products, where the device appears "performance failure", which is still not in working conditions after two repairs.

∎e-survey supports a 24-month warranty service for the device host and a 3-month free warranty service for the accessory from the day when you have received the products.

Warranty service

If the device host meets the warranty conditions, the warranty service can be obtained according to the warranty card and the purchasing invoice. If the proof of purchase and the warranty card cannot be provided, and e-survey will use the delivery time as the standard for the warranty period.

If it is a non-warranty product, and the repair center will handle the maintenance of the extra-fee.

After the device is repaired, the same fault is con-firmed by the repair center and e-survey will provide a 3-month free warranty service.

The transportation, delivery and disposal costs incurred during the delivery or inspection of the product to e-survey shall be borne by the user. The freight generated by the repair or inspection equipment returned to the user shall be borne by e-sur-vey.

Equipment that needs to be repaired or sent for inspection, please back up the data in the machine in time.

During the warranty period, the parts normally used for maintenance are free.

The parts that have been replaced during the repair are owned by e-survey.

e-survey is not responsible for non-product standard and software or applications that are not certified by the company.

Following conditions are not within the scope of the warranty and service

The device host and accessories have been subjected to: abnormal or improper use, improper storage of abnormal conditions, unauthorized disassembly or alteration, accidents, damage caused by improper installation.

Damage caused by improper use of user, such as liquid injection, damage due to external force, etc.

Failure to use, repair or transport caused by the equipment's instruction manual.

Damage to the product is caused by external, including but not limited to, abnormal and unpredictable factors such as satellite systems, geomagnetism, static electricity, physical pressure, etc.

Damage caused by force majeure such as earth- quakes, floods, wars, etc.

Other conditions that cannot comply with the relevant provisions of the Guarantees Rights.