E100 Receiver Quick Start Guide





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01 Appearance

1.1 Appearance



- A. Indicators
- B. Power Button
- C. SIM Slot
- D. Speaker
- E. Type-C
- F. 5-Pin Port

02 Basic Operation

2.1 Install Micro SIM Card

Open SIM card cover, insert Micro SIM card and put back the cover.



2.2 Button and Indicators



Button / In	dicators	
	Power Button	Press to broadcast current working mode and status
	1 Ower Button	Long press to power on/off device
TEI	Satellites (Red/Green)	Off: no receiving satellites Flashing Red: receiving satellites but no solution status Flashing Green: having solution but no fix Solid Green: fixed solution Flashing Red and Green: GNSS mainboard abnormal
10101	Datalink (Green/Blue)	Solid Green: datalink set up completely Flashing Green: data is transmitting Flashing Blue: under static mode, blue LED flash according the interval setting
	Power (Red/green)	Solid Green: battery level 30%~100% Flash Green: battery level 10%~30% Flash Red: battery level <10%, speaker will beep
	Bluetooth (Blue)	Off: no device connection Solid Blue: device connected

2.3. Power on/off

Power on: Press button for two seconds, there will be a beep sound Power off: Press button for two seconds, there will be a voice prompt, then press button to power off device

2.4. Charging

Power indicator is solid red during the charge period. And turn to solid green when it is fully charged

2.5. Web UI

2.5.1 Access Web UI

Power on device, search receiver serial number. Open web browser and input IP address: 192.168.10.1. Then input user name "admin" and password "password".



2.5.2 Position

Show current position status, solution type and accuracy.

China Mobile 🔤 🔐	C 💷 11:26
Q E100 Web UI	
E100 E1003719000008	English -

System Mode: Rover
Longitude: 121.530388456 *
Latitude: 31.084412386 °
• Height: 62.737 m
Status: Single
Satellites: 25 [GPS: 10, BeiDou: 10, Glonass: 5]
• PDOP: 0.985
• HDOP: 0.572
• TDOP: 0.548
• HRMS: 1.145
• VRMS: 1.602
Local Time: 2019-06-06 11:26:48
• UTC Time: 2019-06-06 03:26:48



2.5.3 Satellites Map

Show current satellites list or map.



2.5.4 Device Information

View detailed device information.



2.5.5 Working Mode

Configurate device working mode.



Receiver: Device Model: E100

Device Model: E100 Serial Na: E100379000008 Hardware Version: E100-V1.1 B00T Version: 1.0 Firmware Version: 0.31.195507 OS Version: eng-root.20190506.111716(7.1.2) MCU Version: Sensor Version: 1.0 Battery Power 47% Power Source: battery Data Memory: Total 4.36 GB; Free 4.10 GB Data Memory: 2019-4.20

Antenna:

Antenna Type: UNIG950X093A R: 735 H: 430 HL1: 342 HL2: 255

GNSS Boar	d:		
GNSS Mod	el: P327		
00000000	1. 10001000		



2.5.6 Satellites Setting

Configurate satellites setting.



Cutoff Angle		
5	* [0-45]	
GPS		
Enable Disable		
GLONASS		
Enable Disable		
Beidou		
Enable Disable		
GALILEO		
Enable Disable		
SBAS		
Enable Disable		
RTK Timeout		
30	[6-8100]	
SUREFIX		
NORMAL SUREFIX		
Save	Cancel	

2.5.7 Device Configuration

Configurate device setting.



2.5.8 NMEA Message

Set NMEA messages to be output through 5-Pin port.

China Mob	ile Mars	<u>_</u>					ଓ 💷 11:28
Q E10	0 Web	UI					C
E100 E	100371	90000	08		Eng	lish	
GGA:	1Hz 🔻	ZDA:	1Hz 🔻	GEDOP:	Off	۳	
GSA:	1Hz 🔻	GSV:	5S 🔻	GEREF:	5S	٠	
GST:	1Hz 🔻	VTG:	1Hz 🔻	GESNR:	5S	۳	
RMC:	Off •	GLL:	Off •	GGK:	Off	۳	
GEVCV:	1Hz 🔻						
External	Port Ou	tput N	MEA				
Enabl	e 💮 Di	isable					
			Save	Cancel			
				ouncer			
<				\triangle	[1	

2.5.9 View Logs

Log file can be used to diagnose problem.



View Lo	gs
1. 4PP	Download
Log	View
2. OS	Download
Log	View

2.5.10 Configuration Set

Save, download or apply current working mode.







2.5.11 Management

Update firmware, register device.

E100 Web UI			Q E100 Web UI		
00 E1003719000	108 EI	nglish - 🔳	E100 E1003719000	0008 English -	
			GNSS Registra	ation	
Install New Fir	mware 😧		GNSS Functionality: AuthCode:	564;0;00/00/2000;A;OPT=;	5Hz;RT
Choose File No	file Upload File		Submit		
Registration			Security		
Expire Date:	20190828				
Function:	L1+L2,GPS+Glona	ass+BeiDou+Galile	Enable Login Old Password:	Authentication	
AuthCode:			New		
Submit			Password: Confirm		
			Password:		
Qianxun			Change		
Qianxun Mode	DSK V				
Qianxun Key:			Format		
Qianxun		Submit	Internal Disk	UK	
Secret:			Self Test	ок	
Network RTK:	The current datalink is not network mode	Activation	Restore Factory	ок	