

Welcome to the world of GNSS Sensor



Connection

LED Definition

Satellite LED: Flashing while searching satellites.

Static LED: Flashing while collecting static data.



Status LED: Lighting while sending CORS data.

O Power LED: Lighting while power supply is on.



Serial Port (use to connect external radio or power)

IP Configuration



Users can use WinFlash software to config IP address. Click [Configure ethernet settings].

Ethernet C	Ethernet Configuration						
Ether	net setti	ngs					
IP	Setup:	Static IP address	-				
IP Ad	ldress:	192 . 168 . 30 . 1	.78				
Ne	tmask:	255 . 255 . 255 .	0				
Bros	dcast:	192 . 168 . 0 . 2	:55				
Ga	teway:	192 . 168 . 30 .	1				
	DNS	192 . 168 . 0 .	5				
HTTP	settings Server	9971					
[OK	Cancel					

Choose [Static IP address], and then input IP address as you need.

<u> </u>	Tracki	ng🛛		
Receiver Status				
Baceluer Configuration				
Summary	Elevation Mr	wak a se		
Antenna	Elevation Ma	TM Could		
Reference Station	Everest	Enable •		
Correction Controls	Clock Steer	ing Disable •	8	
Position	Туре	Signal	Enable	Options
Application Files	GPS	L1 - C/A	121	
Reset	GPS	L2E	2	L2C and L2E ·
VO Configuration	GPS	L2C	Z	CM + CL +
Network Configuration	GPS	L5	2	1+Q.+
Security	SBAS	L1 - C/A	2	
Firmware	SBAS	L5	2	
Help	GLONASS	L1 - C/A	12	
	GLONASS	L1P	8	
	GLONASS	L2 - C/A	×.	L2 - C/A(M) Only ·
	GLONASS	L3		
	Galileo	E1	2	
	Galileo	E5 - A	2	
	Galileo	E5 - B	×.	

Users can customize satellite systems, frequencies, and combination of different frequencies.

Reference Station



Users can set reference station coordinates, there are three ways: •Input reference station coordinates directly, if you know it exactly. •Click [Here] to get reference station coordinates.

•Survey hundreds of points and then click [Average] to get reference station coordinates.

	Antonna Configurativ	an ()
Receiver Status	Antenna Conngulatio	
Satellites		
Receiver Configuration		
Summary	Antenna Type Unknown Exte	nal 🔹
Reference Station	RINEX Name Unknown Exte	nal 👻
Tracking	Antenna Serial Number	
Correction Controls Position	Radome Serial Number	
General	Antenna Measurement Method Antenna Phase	Center +
Application Files	Antenna Height [m] 0.000	
Default Language		
I/O Configuration		
Network Configuration		
Security	-	- 5
Firmware	ante	8
Help		
	Apply Antenna Correction to:	
	RIGM V3 🗹	
	OK Cancel	

Users will config antenna parameters.

•Antenna type/RENIX Name: CHC A220GR GNSS Geodetic antenna or CHC C220GR GNSS Choke Ring antenna preferred (Both of them are included in [Unknown External], and users can not change it, cause it is defined by Trimble).

Antenna Measurement Method: Choose the way to measure antenna.
 Antenna Height: Input antenna height users measured. When you choose [Unknown External], the default antenna phase center height is zero, you need to modify it. For example, CHC A220GR: 0.1493m, CHC C220GR: 0.2084m.

Data Output

<u> </u>	I/O Configuration						
Receiver Status							
Satellites							
Receiver Configuration	Type	Port	Input	Output			
VO Configuration	тсрлр	5017		RT27(1Hz)			
Port Summary Port Configuration	TCP/IP	5018		NMEA-GGA(5Hz), NMEA-GST(1Hz), NMEA-GSV(5 Sec.), NMEA-GSA(5 Sec.), NMEA-RMC(1Hz)			
Network Configuration	TCP/IP	28001		 A second s			
Security	TCP/IP	28002					
Firmware	NTRIP Client 1			 A second se			
Help	NTRIP Client 2						
	NTRIP Client 3			 A second s			
	NTRIP Server			the second se			
	NTRIP Caster 1	9972		CMR, RTCM, RT27(1Hz)			
	NTRIP Caster 2	2102		and the second			
	NTRIP Caster 3	2103		the second se			
	Serial	COM1 (38.4K-8N1)		RT27(1Hz), NMEA-GGA(1Hz)			
	Serial	COM2 (38.4K-8N1)		RT27(1Hz), NMEA-GGA(1Hz), NMEA-ZDA(1Hz), GSOF(1Hz)			
	Serial	COM3 (38.4K-8N1)					
	USB			and the second			

Users can click I/O Configuration to achieve data output.

Receiver Status	I/O Config	guration®		
Satellites				
VO Configuration	NTripCaster 1			
Port Summary Port Configuration	NTripCaster			
Network Configuration Security Firmware	Enable: 🕑 I Identifier	Port: 9972 Country:	USA	
Help	Moure Poine Test			
	CMR			
	CMR	 Delay: 0 msec 		
	RT27:			
	Epoch Interval	Opti	ions	
	1Hz +	Concise 2	Multi-System Support	
	Measurements	R-T Flag	Smooth Pseudorange	
	Positions	Send Raw GPS Data	Smooth Phase	
		Send Raw SBAS Data	Include Doppler	
		GPS Ephemeris W	fhen new one is available •	
		GLONASS Enhemeris W	free new one is pupilable 🔹	-

For example:

Click [NTRIP Caster 1], and then you will enter the interface of detailed configuration. Click [Enable] to make NTripCaster be available to use. Port: Input the port number to export data. Identifier/Country will be default. Mount Point: Input TEXT as source table. CMR: Switch difference scheme as you need, and set delay time.

<u> </u>	I/O Configuration						
Receiver Status							
Satellites							
Receiver Configuration	Type	Port	Input	Output			
VO Configuration	TCP/IP	5017		RT27(1Hz)			
Port Summary Port Configuration	TCP/IP	5018		NMEA-GGA(5Hz), NMEA-GST(1Hz), NMEA-GSV(5 Sec.), NMEA-GSA(5 Sec.), NMEA-RMC(1Hz)			
Network Configuration	TCP/IP	28001		and the second			
Security	TCP/IP	28002		and the second			
Firmware	NTRIP Client 1			 A second s			
Help	NTRIP Client 2			and the second			
	NTRIP Client 3			 A second se			
	NTRIP Server			and the second			
	NTRIP Caster 1	9972		RTCM_V3			
	NTRIP Caster 2	2102		and the second			
	NTRIP Caster 3	2103		and the second			
	Serial	COM1 (38.4K-8N1)		RT27(1Hz), NMEA-GGA(1Hz)			
	Serial	COM2 (38.4K-8N1)		RT27(1Hz), NMEA-GGA(1Hz), NMEA-ZDA(1Hz), GSOF(1Hz)			
	Serial	COM3 (38.4K-8N1)					
	USB			and the second			
			_				

If data output succeeds, then NTRIP Caster 1 will turn green.

Remote upgrading

	Install New Fire	nware
Receiver Status		
Satellites		
Receiver Configuration		
No Configuration	Firmware Warranty Date:	2017-01-01
To configuration	Active Firmware Version	5.11
Network Configuration	Active Core Engine Version	5.11
Security	Active Firmware Release Date:	2015.12.16
Firmware	Active Firmware Warranty Date	2015-05-01
	Active Firmware Checksum:	b4518a72
FW Opgrade Check		
Help		
	Status: Ide	

Users can get remote upgrading in [Firmware] (Both [Install] and [FW Upgrade Check]).

Install: You will install latest firmware in the interface.

	Check for Firmware Upgrades
Receiver Status	1.9
Satellites	
Receiver Configuration	
VO Configuration	<u> </u>
Network Configuration	Enable: 🗹
Security	Charle for some formation of the second se
Firmware	
Install SW Unreade Cheek	
The opprove control.	
nep	

FW Upgrade Check: You will click [Check for new firmware now] to input firmware file, and then get remote upgrading.



Users can click [Verify GPS software version] to check OEM board firmware version.



Users can click [Verify receiver options] to check OEM board function.

R: 0623001689				
Dotico	Status	Tron	Te	
MR Treats	Frahlad			-
MB Outputs	Inabled			
RICH Laguts	Inabled			
RTCH Datesats	Inabled			
Binary Outputs	Inabled			
foring lane	Inabled			
Event Marker	Inabled			
1203	Inabled			
15	Insoled			
Enable GLOBASS	Insoled			
Inable Webserver	Insoled			
Inable JeiJeu	Inabled			
Enable Galileo	Inabled			
farðvare Versian	3.2			
Simeware Option	Enabled		11/2017	
lowngrade Linit	417			
for Data Bate	50 Hz			
Frand	Trisble			V

This interface shows whether OEM board function is enabled.

External Radio

<u> </u>	I/O Configuration@
Receiver Status	
Satellites	
Receiver Configuration	
VO Configuration	Seial1/COM1 • RTOM •
Port Summary Port Configuration	Serial Port Setup
Network Configuration	Brant 2000 - Barthe M -
Security	Lines. [Deep.] i may [tr]
Firmware	
Help	RTCM
	Disabled v Version 2.1 v Type: RTK v
	OK Cancel

Users can connect P3E with an external radio. Then, users will click [I/O Configuration] to switch [Serial/COM1].You can switch difference scheme, baud, parity as you need.



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