

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 Co	onfigurat	tion				×
	uet setti					
IP S	etup:	Stati	c IP a	ddress	•	
IP Add	bress:	192	. 168	. 30	. 178	
Net	mask:	255	. 255	. 255	. 0	
Broad	lcast:	192	. 168	. 0	. 255	
Gat	eway:	192	. 168	. 30	- J	
	DNS	192	. 168	. 0	. 5	
	settings Server	9971				
	OK			Cance	1	

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

<u> </u>	Tracki	ng😧		
Receiver Status		Ŭ		
Satellites				
Receiver Configuration				
Summary	Elevation Ma	ask 0 *		
Antenna Reference Station	Everest	TM Enable		
Tracking		ing Disable		
Correction Controls				
Position General	Туре	Signal	Enable	Options
Application Files	GPS	L1 - C/A	121	
Reset	GPS	L2E	121	L2C and L2E ·
Default Language				
I/O Configuration	GPS	L2C	×.	CM + CL ·
Network Configuration	GPS	L5	2	1+Q +
Security	SBAS	L1 - C/A	2	
Firmware	SBAS	L5	1	
Help	GLONASS	L1 - C/A	N.	
	GLONASS	L1P	8	
	GLONASS	L2 - C/A	2	L2 - C/A(M) Only ·
	GLONASS	L3		
	Galileo	E1	2	
	Galileo	E5 - A	2	
	Galileo	E5 - B	V	

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.

Receiver Status Statilites Receiver Configuration Latianna Reference Station Tracing General Application Ris Revert General Anterna Mass Anterna Mas	a Configuration	
Receiver Configuration Summary Antenna Reference Station Tracking Correction Controls Correction Controls Readom Anterna Mass Anterna Mass Reset Default Language		
Summary Antenna Reference Station Tracking Correction Controls Position General Application Files Reset Default Language		
Antenna Reference Station Trasking Correction Controls Position Controls Radom General Application Files Antenna Meas Antenna Meas Antenna Meas Antenna Meas		
Tracking Antenn Correction Controls Radom Position General Antenna Meas Application Files An Reset Language Default Language	Antenna Type Unknown External	•
Correction Controls Radom Position General Antenna Meas Application Files Antenna Meas Default Language	RINEX Name Unknown External	
Position Radom General Anterna Meas Application Files An Reset An Default Language	a Serial Number	
Application Files An Reset Default Language	e Serial Number	
Reset All Default Language	urement Method Antenna Phase Cer	ster 👻
Default Language	tenna Height (m) 0.000	
I/O Configuration		
Network Configuration		
Security	Slope	NOC
Firmware	4	
Help Antoni	na Correction to:	and the second se
Apply Anten	RTCM V3 V	
	NTOW VO E	
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

I/C) Confi	guration)	
Receiver Status				
Satellites				
Receiver Configuration	Туре	Port	Input	Output
NO 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	тсрлр	28001		and the second
Security	TCP/IP	28002		 A second s
Firmware	TRIP Client 1			· · · · · · · · · · · · · · · · · · ·
Help	TRIP Client 2			 A second s
N	TRIP Client 3			e de la construcción de la constru
N	TRIP Server			and the second
IN	TRIP Caster 1	9972		CMR, RTCM, RT27(1Hz)
IN	TRIP Caster 2	2102		and the second
IN	TRIP 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

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

Receiver Status	I/O Config	guration®		
Satellites Receiver Configuration				
VO Configuration	NTripCaster 1			
Port Summary Port Configuration	NTripCaster			
Network Configuration Security Firmware Help	Enable <table-cell> I Identifier Mount Point TEST</table-cell>	Port: 9972 Country:	USA	
	CMR			
	CMR	• Delay: 0 msec •		
	RT27:			
	Epoch Interval	Opti	ons	
		Concise 2	Multi-System Support	
	Measurements		Smooth Pseudorange	
	Positions	Send Raw GPS Data	Smooth Phase Include Doppler	
			fhen new one is available •	
		GLONASS Enhometic W	then new one is prolable	

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 Confi	guration)	
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 Firr	nware
Receiver Status		
Satellites		
Receiver Configuration	e	
VO Configuration	Firmware Warranty Date:	2017-01-01
Network Configuration	Active Firmware Version	5.11
		5.11
Security	Active Firmware Release Date:	
Firmware	Active Firmware Warranty Date	2015-05-01
FW Upgrade Check	Active Firmware Checksum:	b4518a72
Help	3(8	
	Status Idle	

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	Check for Finnware opgrades
Satellites	
Receiver Configuration	
VO Configuration	8
Network Configuration	Enable: V
Security	
Firmware	Check for new formulae now
Install	
FW Upgrade Check	
Help	

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.

g: 0623001699 nstalled Options				
Optica	Statur	Tron	Te	
MB Inests	Frahlad			
MB Outputs	Frahlad			
TON Inputs	Frahlad			
TON Datasts	Frahlad			
inary Outputs	Frahlad			
foring lane	Frahlad			
vent Marker	Inabled			
203	Inabled			
5	Inabled			
Inable GLOBRES	Inabled			
nable Webserver	Inabled			
onlie leilen	Inabled			
Inable Galileo	Tashled			
fordware Versian	3.2			
firmware Option.	Inabled		11/2017	
lowngrade Linit	417			
for Data Bate	50 Hz			
Frand	Trinhle			

This interface shows whether OEM board function is enabled.

External Radio

<u> </u>	I/O Configuration
Receiver Status	
Satellites	
Receiver Configuration	
VO Configuration	Serial / COM1 • RTCM •
Port Summary Port Configuration	Serial Port Setup
Network Configuration	Baud: 38400 - Parity N -
Security	Lines. [Deep.] i may [tr]
Firmware	
Help	RTCM
	Disabled v Version: 2.1 v Type: RTK
	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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