Debug steps for 4G connection failure

Technical FAQ



USV | Nov 2023

Make your work more efficient

Prerequisites:

Hardware:

- 1. Boat (GD100) with batteries
- 2. Antenna including 4G antenna,WIFI&RC antenna*2PC
- 3. PC

Steps:

- 1. Nano-size USIM connection
- (1) Power on the boat and connect boat WIFI



Figure 1

(2) logon the web UI: http://192.168.53.254Username:adminPassword:Admin1234





(3) Go to 'Network setting' and check out the SIM card type.if it shows SIM,that mean the sim card connect well.otherwise that would be something wrong with connection.

CHCNAV		SN:3298156 English 🗸 💡
Status	rk Setting ×	
Satellites		
Receiver Configuration		
Data Recording	Auto Start:	
I/O Settings		
System settings	O 2G Only	
Network Setting	_ 3G Only	
Radio Setting	Newfork Mode: 2 20/35 Auto	
Bridge Setting	2 Gr3G/4G Auto	
Return To Launch Setting	Telecom cards call support (C)	
N2N Setting	relection cards only support etc:	
ZTW mode setting	SIM Type: SIM	
Remote Control Setting		
Ship Type Setting	Dialing Status: Connected	
Function Setting	Auto Connect: Yes No	
	ADN' weekt	
	Dialing String: "99#	
	User Name:	
	rassiwiru.	
	III Save	
N	twork access mode setting	
Firmware	Advanced	
Cloud Service Setting		

- Figure 3
- 2. Go to 'System setting' to check out 'N2N setting'

Choose 'International server' in the sever type selection.

CHCNAV TECHNICAL FAQ | 2023-11

(V	SN:3443955	English 💛	Quit
ø	Status	N2N Setting ×			
a a	Satellites	N2N Setting			
×	Receiver Configuration				
	Data Recording	username: 3443955			
¢	I/O Settings	password: Admin1234			
(1:	System settings	Client IP: 192.168.0.254 Server IP: 159.138.1.94			
1	 Network Setting 	Server Port: 7777			
1	 Radio Setting 				
d	 Bridge Setting 				
ä	 Return To Launch Setting 				
	N2N Setting				
	 ZTW mode setting 				
0	 Remote Control Setting 				
3	 Ship Type Setting 				
1	 Function Setting 				
۲	Firmware				
-	Cloud Service Setting	Figure 4			
		Figure 4			

3. check out the signal strength.



	System				
▶ System					
	NetWorkState		Giss Info		
 Position State 	Power Status:	ON	Solution State:	Fix	
 position record 	Connection Protocol:	CHINA MOBILE	Search Status:	33 / 33	
	Signal Strength:	-65(dBm) 79%	DOP:	HDOP-0.577657	VDOP-0.962791
 Water Quality Data Recording 	SIM Status:	SIM Card Ok	RTK Mode:	Mobile Station C	ORS
tings	Dialing Status:	Connected	Differential Delay:	02	
	IMEI:	860195053908163	Heading Solution Type:	Fix	
	PhoneNumber:	1440671207276	Heading Search Status:	36 / 37	
	ICCID:	89860467092140007276	Heading:	248.22740	
	ESIM real-name				
	authentication:	Please authenticate			
	ESIM data remaining:	9.99GB/10GB 19kb/s Recharge			
	Battery Status		Activity Status		
Satellites	Battery Status Battery:	0%	Activity Status Current Time:	2022-12-13 06:4	10:23 (UTC)
Satellites	Battery Status Battery: Battery Voltace:	0%	Activity Status Current Time: Operation Duration:	2022-12-13 06:4 00-00-00 00:09:	10:23 (UTC) 52
Satellites	Battery Status Battery Voltage: Use Mileage:	0% 0 (v) 106.490(km)	Activity Status Current Time: Operation Duration: Internal Storage:	2022-12-13 06:4 00-00-00 00:09: 13.08%	10:23 (UTC) 52 3807MB/29110MB
Satellites Receiver Configuration Data Recording	Battery Status Battery Voltage: Use Mileage: Range:	0% 0 (v) 106.490(km) 0.000(km)	Activity Status Current Time: Operation Duration: Internal Storage: External Storage:	2022-12-13 06:4 00-00-00 00:09: 13.08% 0%	10:23 (UTC) 52 3807MB/29110MB Disconnected
Satellites Ceceiver Configuration Data Recording I Oata Recording I / O Settings	Battery Status Battery Voltage: Use Mileage: Range:	0% 0 (v) 106.490(km) 0.000(km)	Activity Status Current Time: Operation Duration: Internal Storage: External Storage:	2022-12-13 06:4 00-00-00 00:09: 13.08% 0%	10:23 (UTC) 52 3807MB/29110MB Disconnected
Satellites Receiver Configuration Data Recording I/O Settings System settings	Battery Status Battery Voltage: Use Mileage: Range:	0% 0 (v) 106.490(km) 0.000(km)	Activity Status Current Time: Operation Duration: Internal Storage: External Storage: Sounder	2022-12-13 06: 00-00-00 00:09: 13.08%	10:23 (UTC) 52 3807MB/29110MB Disconnected
 Satellites Receiver Configuration Data Recording JO Settings System settings Firmware 	Battery Status Battery Voltage: Use Mileage: Range: Control State EKF:	0% 0 (v) 106.490(km) 0.000(km) Abnormal	Activity Status Current Time: Operation Duration: Internal Storage: External Storage: Sounder Range:	2022-12-13 06:4 00-00-00 00:09: 13.08% 0%	10:23 (UTC) 52 3807MB/29110MB Disconnected
Satellites Receiver Configuration Data Recording Joata Recording System settings System settings Claud Reaging Setting	Battery Status Battery Voltage: Use Mileage: Range: Control State EKF: Mode:	0% 0 (v) 106.490(km) 0.000(km) Abnormal Manual	Activity Status Current Time: Operation Duration: Internal Storage: External Storage: Sounder Range: The Depth of The Water:	2022-12-13 06:4 00-00-00 00:09: 13.08% 0%	10:23 (UTC) 52 3807MB/29110MB Disconnected

4. Reinstall Autoplanner software

The software should be compatible with firmware, so please install the Autoplanner that come with firmware, contact the technical support(support@chcnav.com) or Skype (chc_support) if you do not know the proper version software.

Click next button till complete installation



CHC Navigation

Shanghai Huace Navigation Technology Ltd. CHCNAV | Smart Navigation & Geo-Spatial Technology Park, 577 Songying Road, 201703, Shanghai, China Tel: +86 21 542 60 273 | Fax: +86 21 649 50 963 Email: sales@chcnav.com | support@chcnav.com Skype: chcnav_support Website: www.chcnav.com