Multitech - MTE-Series Cell Modem

Overview

The purpose of this article is to provide a quick guidance on how to configure Multitech MTE-Series cell modem to connect it to a Swift Navigation Device and get corrections from Skylark or a third party RTK correction service.



Prerequisites

Ensure device is powered properly to the voltage level suggested by the manufacturer.

Steps

- 1. Before starting, check with the selected service provider :
 - a. SIM card APN information, to be used later during cell modem configuration
 - b. If data plan has been activated on the SIM card to be used.
- 2. Insert the SIM card on the SIM slot as instructed on the Multitech MTE-Series User Manual.
- 3. Connect your computer to the cell modem via ethernet cable and turn the device on.
- 4. On your computer, turn-off your wireless network and enable DHCP on the physical ethernet interface to be used.
- Open your internet browser and type the following ip : 192.168.2.1
 Note : If you are not able to establish connection with the cell modem, check your network settings on your computer.
- 6. You will land into the Multitech default credentials screen. Please enter the default username and password as indicated below:



MULTITECHO				
	MultiConnect® eCe	∥ v2.03		
Usemam	e: admin			
Passwor	d:			
	Login			

7. You will be directed to the main configuration menu screen

C Not secure 19	2.168.2.1								04 Q 3		o 💋 🖸	
MULTITECH	MultiC Firmware v	onnect® eC	ell - Ethernet	to Cellular Bridge								
Wizard	Network	Status										
Status Network Status	WAN Interfa	ce IPv4 Network	Status									
LAN Client List	WAN ID	Interface	WAN Type	IP Addr.	Subnet Mask	Gateway	DNS	MAC Address	Conr	. Status	Actions	
Basic Network	WAN-1	3G/4G	3G/4G	0.0.0.0	0.0.0.0	0.0.0.0	0.0.0.0. 0.0.0.0	N/A	Conr	ecting	Edit	
System	3G/4G Mode	em Status			Refresh							
Help		Modem ID		Ca	Card Information Link Status		Signal Strength Network Nan		Network Name	me Actions		
		3G/4G-1		N/A		Connecting	90%	90% (-57dBm)		310410 Detail		
	Internet Tra	Internet Traffic Satisfics										
	WAN ID	Physical Interf	ace		Received Packets	Transmitted Packets						
1	WAN-1	3G/4G			0		0					
	Data Usage	Data Usage Monitoring Release										
		5.MA (KB)		N/A	N/A	N/A	N	VA .	N/A	N/A		
					(w)			*	141			
				N/A	N/A	N/A	N	WA .	N/A	N/A		
				2	-				2	2		

8. In order to configure your cell-modem, go to Status >> Networking and then click on the "*edit*" button the "*Wan Interface IPV4 Network Status*" on the far right side of your screen.

Actions
Edit

9. In top section "Connection with SIM-A Card"



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- a. Change Dial-up Profile from Auto-detection to Manual-detection.
- b. Change Country to the corresponding one where SIM Card has been purchased, in our case we will select the "USA".
- c. Go to "Service Provider" and select the carrier that fit the one you have purchased.Ensure the information matches with the information from your SIM and APN information. As soon as one service provider is selected, it auto populates the rest of the configuration. No further modification are needed in this section. For example, we have tested it with AT&T.
- 10. In lower section "3G/4G Connection Common Configuration":
 - a. Go to "IP Passthrough" and deactivate the checkbox.
 - b. Right after, ensure "NAT" is "Enable".
- 11. As mentioned before and for the purpose of this guide, we have selected USA as country and AT&T as service provider. The configuration for this example will look like the following image:

Connection with SIM-A Card		
Item	Sett	
Dial-up Profile	Auto-detection Manual-configuration	
PIN Code	(Optional)	
Roaming	Enable	
Data Usage Monitor	Enable	
Carrier Name		
Cycle Period	Hours V 0	
Cycle Start Date	▼ / December ▼ / 31 ▼ 16 ▼ : 0 ▼	
Data Allowance	0 KB V	
Halting Internet	Enable	
3G/4G Connection Common Configuration		
Item	Sett	
Connection Control	Auto-reconnect (Always on) V	
Time Schedule	(0) Always V	
▶ MTU	0 (0 is Auto)	
IP Passthrough	Enable Fixed MAC:	
NAT	🔲 Enable	
Cellular consecutive fails times	500 (Cellular consecutive fail when not able to obtain cellular IP address, it will Automatically reboot the device.	
Network Monitoring	Enable Data Load Check Check Interval 240 (seconds)	

12. Proceed to Save the configuration. The device will reboot and you will be ready to connect it to your Swift Navigation Device via ethernet port.

Multitech MTE-Series product listing for this configuration				
MTE-LAT2	Region			
MTE-LAT2-B07-US	North America			



For technical support or questions in regards to the Multitech cell modem devices, please contact Multitech Support at <u>https://www.multitech.com/support</u>



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