

INSTRUCTION MANUAL APN AND BASIC NETWORK CONFIGURATION MultiTech eCell Ethernet Bridge

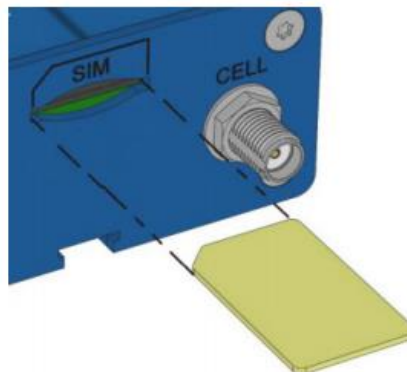
STEP 1:

Insert the Geoverse SIM card into the end of your MultiTech eCell device, pin side down. Use the images below for reference as needed.

Ensure that you use the full-sized adapter for the SIM card, as shown below; otherwise, the SIM may get stuck in the eCell.

Push the SIM in until you hear a click.

Note: Remember to power off the device before inserting or removing the SIM.



STEP 2:

Plug the supplied power adapter 12V/1.0A into the MultiTech eCell device.

Connect the Ethernet port on the MultiTech eCell to your laptop via the included ethernet cable.

Note: Your laptop may need a network USB adapter to use the ethernet cable.

STEP 3:

If you are connected to Wi-Fi, disconnect your laptop from it, and select your network adapter instead. Statically set your IPv4 address to 192.168.2.2

STEP 4:

Open your web browser and enter the following IP address into the address bar: <http://192.168.2.1/> (this is the eCell default address).

Then type in the default login:

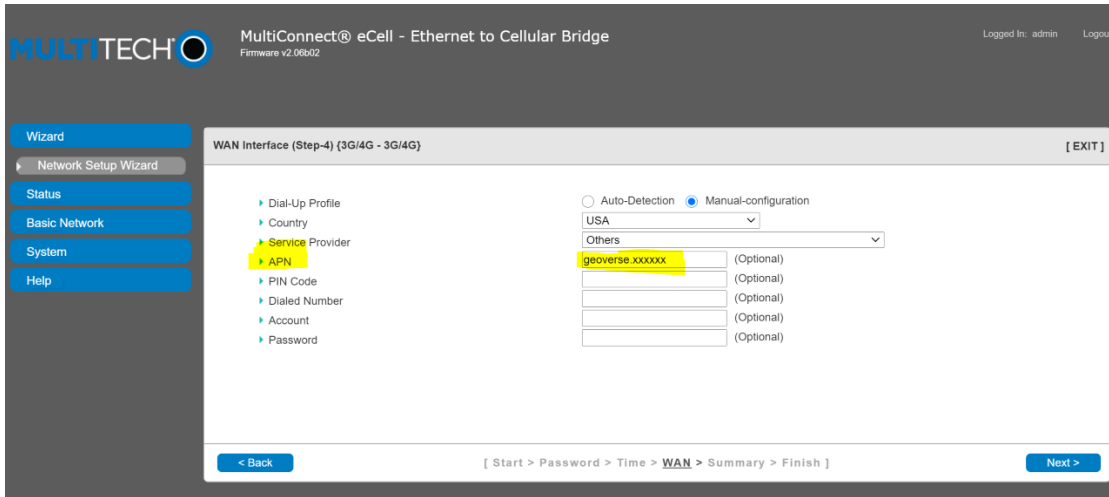
- Username: admin
- Password: admin
- And click on Login

STEP 5:

Use the Setup Wizard to configure the following: login/password, time zone, and WAN interface.

The screenshot displays the MultiConnect eCell web interface. The header includes the MultiTech logo, the product name "MultiConnect® eCell - Ethernet to Cellular Bridge", the firmware version "Firmware v2.06b02", and the user status "Logged In: admin Logout". A left sidebar contains navigation buttons for "Wizard", "Network Setup Wizard", "Status", "Basic Network", "System", and "Help". The main content area is titled "Setup Steps (Step-1)" and contains the following text: "Network Setup Wizard will guide you through a basic configuration procedure step by step." Below this text is a list of six steps: "Step 1. Setup Steps.", "Step 2. Login User Name and Password.", "Step 3. Time Zone.", "Step 4. WAN Interface.", "Step 5. Setup Summary & Apply.", and "Step 6. System Restarting." At the bottom of the main area, there are navigation buttons: "< Back", "[Start > Password > Time > WAN > Summary > Finish]", and "Next >".

On the WAN Interface setup, enter the APN provided by Geoverse.



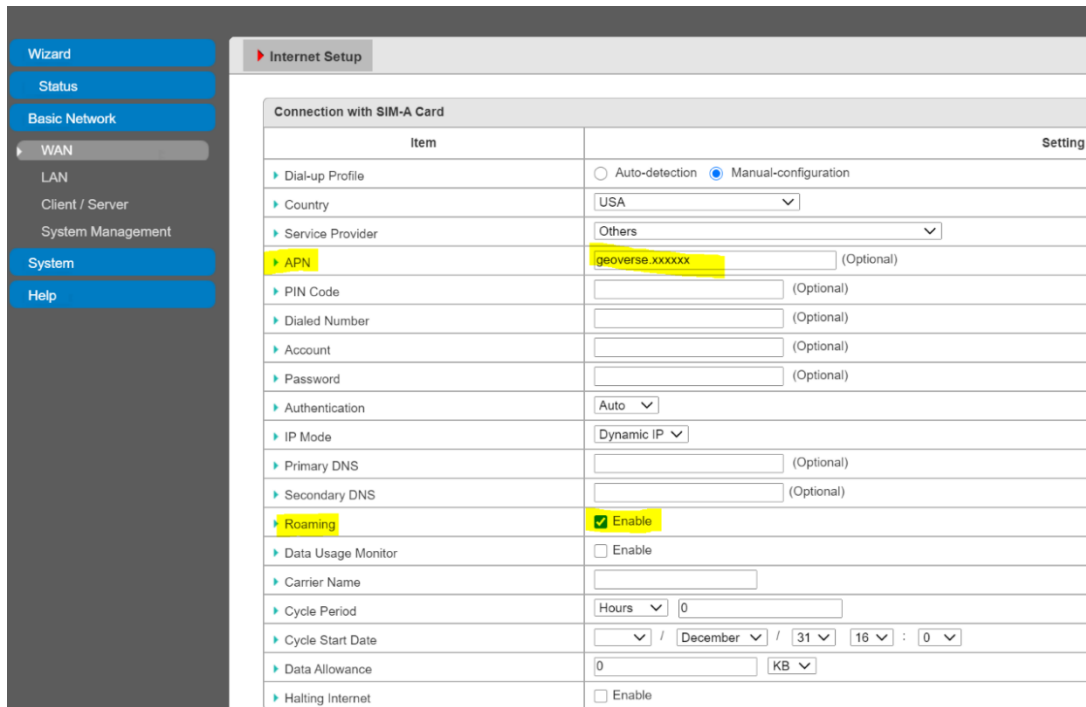
Alternatively, you can go to Basic Network, then WAN and configure the APN there.

Enable Roaming, if desired.

Set MTU to 1300 for the best performance.

Enable IP Passthrough.

Click on Save at the bottom of the page.



3G/4G Connection Common Configuration	
Item	Setting
▶ Connection Control	Auto-reconnect (Always on) ▾
▶ Time Schedule	(0) Always ▾
▶ MTU	1300 (0 is Auto)
▶ IP Passthrough	<input checked="" type="checkbox"/> Enable Fixed MAC : <input type="text"/>
▶ NAT	<input type="checkbox"/> Enable
▶ AT Command	<input type="checkbox"/> Enable TCP Port : <input type="text" value="0"/>
▶ Init String 1	<input type="text"/>
▶ Init String 2	<input type="text"/>
▶ Init String 3	<input type="text"/>
▶ Init String 4	<input type="text"/>
▶ Cellular consecutive fails times	<input type="text" value="50"/> (Cellular consecutive fail when not able to obtain cellular IP address, it will Automati
▶ Network Monitoring	<input type="checkbox"/> Enable <input type="checkbox"/> Data Load Check Check Interval <input type="text" value="240"/> (seconds)

[Save](#) [Undo](#)

STEP 6:

Go to Status then Network Status to verify operational state.

When connected, the status should show the following display:

MultiConnect® eCell - Ethernet to Cellular Bridge
Firmware v2.09602

Network Status

WAN Interface IPv4 Network Status									
WAN ID	Interface	WAN Type	IP Addr.	Subnet Mask	Gateway	DNS	MAC Address	Conn. Status	Actions
WAN-1	3G/4G	3G/4G	192.168.2.1	255.255.255.252	192.168.2.2	0.0.0.0 8.8.4.4	N/A	Connected	Edit

3G/4G Modem Status					
Modem ID	Card Information	Link Status	Signal Strength	Network Name	Actions
3G/4G-1	EM7565	Connected	100% (-51dBm)		Detail

Internet Traffic Statistics			
WAN ID	Physical Interface	Received Packets	Transmitted Packets
WAN-1	3G/4G	1439	1005

Data Usage Monitoring						
SRVLA (VSE)						
	N/A	N/A	N/A	N/A	N/A	N/A
	-	-	-	-	-	-
	N/A	N/A	N/A	N/A	N/A	N/A
	-	-	-	-	-	-

If you click on Actions, then Detail, you will see the following:

The screenshot shows the MultiConnect@ eCell - Ethernet to Cellular Bridge interface. The left sidebar contains navigation options: Wizard, Status, Network Status (selected), LAN Client List, Basic Network, Advanced Network, System, and Help. The main content area displays the following information:

Modem Information										
Physical Interface	Module Name	IMEI/MEID	HW Version	FW Version						
3G/4G	EM7565	353587100159549	EM7565	SW9K50C_01.05.04.00.d8a5d0.jenkins.2015/08/21.21.40.11						

SIM Status			
SIM	PIN Code Status	PIN Code Remaining Times	PUK Code Remaining Times
SIM-A	Ready	3	10

Service Information										
Operator	Cell Broadcast	MCC	MNC	LAC	TAC	Cell ID	Service Type	Band	RSSI / RSCP / RSRP	
		313	640		65534	256	LTE	U9KQVW	-51 / / -49	
C/S Register Status	EcIo	PS Register Status	PS Attached Status	Roaming Status	IMSI	SMSC	MSISDN	ICCID		
Registered	-2	Registered	Attached	Not Roaming	313640000000037		+1999999992	99013136400000000378		

When Roaming, the status will show the following:

The screenshot shows the MultiConnect@ eCell - Ethernet to Cellular Bridge interface with the Network Status section selected. The left sidebar contains navigation options: Wizard, Status, Network Status (selected), LAN Client List, Basic Network, System, and Help. The main content area displays the following information:

WAN Interface IPv4 Network Status										
WAN ID	Interface	WAN Type	IP Addr.	Subnet Mask	Gateway	DNS	MAC Address	Conn. Status	Actions	
WAN-1	3G/4G	3G/4G	192.168.2.10	255.255.255.252	192.168.2.9	8.8.8.8, 8.8.4.4	N/A	Connected	Edit	

3G/4G Modem Status					
Modem ID	Card Information	Link Status	Signal Strength	Network Name	Actions
3G/4G-1	EM7565	Connected	90% (-57dBm)	AT&T	Detail

Internet Traffic Statistics			
WAN ID	Physical Interface	Received Packets	Transmitted Packets
WAN-1	3G/4G	8537	13291

Data Usage Monitoring						
SIM-A (KB)						
	N/A	N/A	N/A	N/A	N/A	N/A
	-	-	-	-	-	-
	N/A	N/A	N/A	N/A	N/A	N/A
	-	-	-	-	-	-

If you click on Actions, then Detail, you will see the following while roaming:

The screenshot shows the MultiTech MultiConnect@ eCell - Ethernet to Cellular Bridge web interface. The page title is "MultiConnect@ eCell - Ethernet to Cellular Bridge" with firmware version "v2.06b02". The user is logged in as "admin". The left sidebar contains navigation options: Wizard, Status, Network Status (selected), LAN Client List, Basic Network, System, and Help. The main content area displays three sections: Modem Information, SIM Status, and Service Information.

Modem Information

Physical Interface	Module Name	IMEI/MEID	HW Version	FW Version
3G/4G	EM7565	353587100159572	EM7565	SWI9X50C_01.08.04.00 dbb5d0 jenkins 2018/08/21 21:40:11

SIM Status

SIM	PIN Code Status	PIN Code Remaining Times	PUK Code Remaining Times
SIM-A	Ready	3	10

Service Information

Operator	Cell Broadcast	MCC	MNC	LAC	TAC	Cell ID	Service Type	Band	RSSI / RSCP / RSRP
AT&T		310	410		65534	107926025	LTE	Band 2	-59 / /-92

CS Register Status	Eclo	PS Register Status	PS Attached Status	Roaming Status	IMSI	SMSC	MSISDN	ICCID
Unregistered	-2	Registered	Attached	Roaming	313640000000285		+19999999992	89013136400000002853