

MoCA Ethernet Adapter

Model: ASK-MAE340



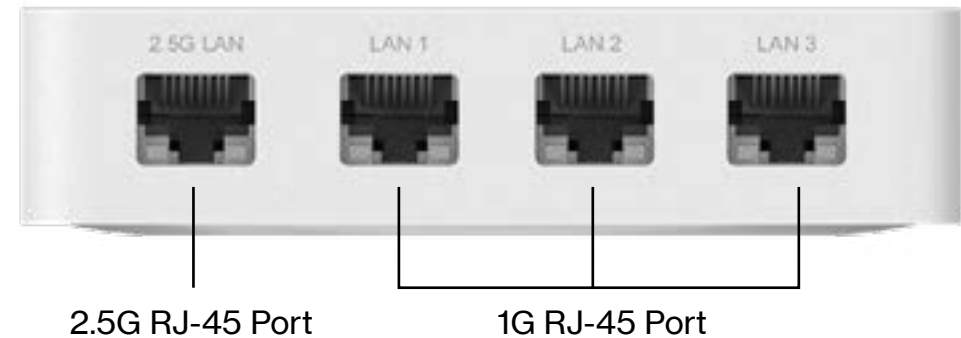
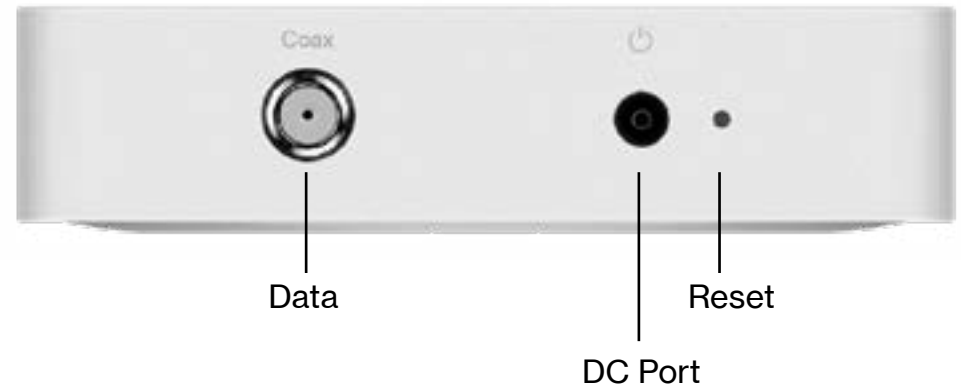
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1. MoCA Ethernet Adapter

The MoCA Ethernet Adapter uses the existing coaxial wiring in most homes to create a high-speed Ethernet network connection. The MoCA Ethernet Adapter complies with MoCA 2.5 standard which can deliver up to 2.5Gbps wired speed through your existing home coaxial wiring.

With four Ethernet ports, the MoCA Ethernet Adapter provides wired connections of all your devices including PC, TV, streaming devices, gaming console, and more devices to access content simultaneously.










Interfaces & buttons

Interfaces	Description
Data	The “Data” port on the MoCA Ethernet Adapter is for connection to your existing Coaxial network.
DC Port	Connect the supplied 12V, 1A power adapter to this port to power on the device.
Reset	If you experience difficulties with your device or want to revert all settings that you have changed, the reset button allows you to reset the device back to its factory default state. A single quick press and release the reset button restart the device. Press and hold the reset button for 10 seconds to restore the factory default settings.
2.5G RJ-45 Port	The 2.5G RJ-45 port creates an interface to connect an Ethernet device via your MoCA network.
1G RJ-45 Port	The 1G RJ-45 ports provide 1Gbps Ethernet connection for Ethernet enabled devices via your MoCA network.

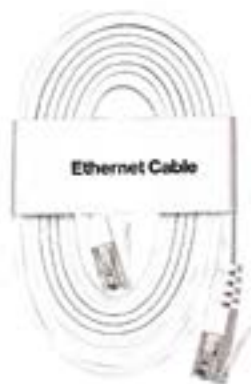
LEDs

The LEDs indicate the system and Ethernet connection status of the MoCA Ethernet Adapter.

Indicator/ Scenario	Description	Light type
System	System off	Off
	Power on	Yellow 
	MoCA network connected	White 
	MoCA traffic	Blinking White 
RJ45	10/100M connection speed	Yellow 
	1G/2.5G connection speed	White 
	10/100M connect (traffic)	Blinking Yellow 
	1G/2.5G connect (traffic)	Blinking White 

2. Inside the box

Inside the product package you should find the following items. Contact Verizon Customer Support if any of the items is missing or damaged.



3. Install MoCA Ethernet Adapter

3.1 Positioning the device

- Position the device where the cable can access the power outlet and coax source
- Keep the device away from the direct sunlight.

3.2 Mounting the device to the wall

Please follow the steps below to install the MoCA Ethernet Adapter on the wall.

Step 1: Mark on the wall where you would like to install the device and pre-drill a hole for the anchor.

Step 2: Install the anchor and screw into the pre-drilled hole.

Step 3: Hang the device onto the screw through the mounting hole on the device.

3.3 Setup requirements

To configure your MoCA Ethernet Adapter via a computer, you need a router and computer that meet the following system requirements:

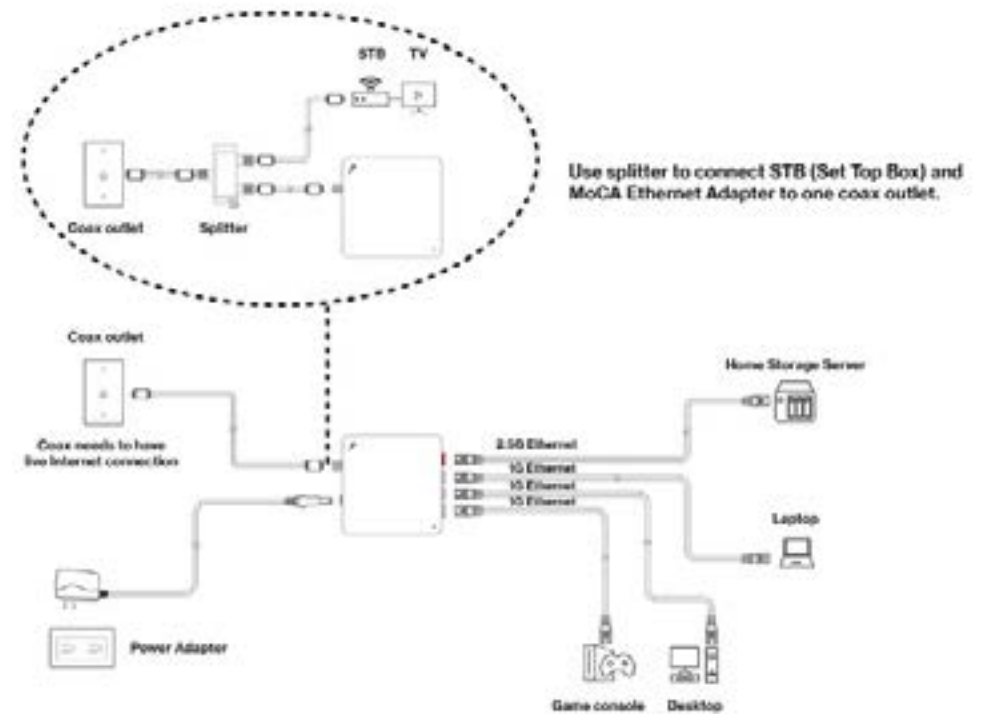
- A router supports RJ-45 LAN and MoCA LAN.
- A computer with an Ethernet RJ-45 (LAN) port (10Base-T/100Base-TX/1000Base-TX/2.5GBASE-T).
- Web browser such as Internet Explorer, Firefox, Safari, or Google Chrome.



3.4 Installing the device

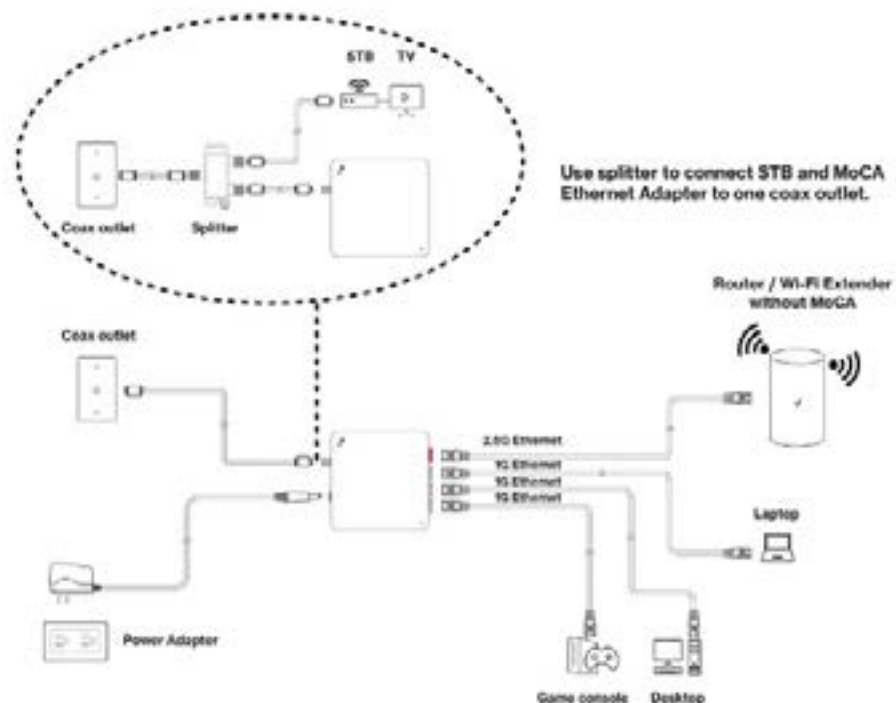
3.4.1 Use the MoCA Ethernet Adapter as a connector between the coax outlet and your computer.

1. Verify that the MoCA capable router in your home is connected to a coax outlet at the router location.
2. Connect a coaxial cable from the coax outlet to the “Data” port on the MoCA Ethernet Adapter. If needed, use the included RF splitter to add an additional coax connector from the coax outlet.
3. Connect your laptop, desktop, or game console devices to the “LAN” ports on the MoCA Ethernet Adapter.
4. Connect the provided Power Adapter to the MoCA Ethernet Adapter.
5. Wait for the system light to turn solid white. This indicates that the MoCA Ethernet Adapter has successfully formed a network with the router.



3.4.2 Use the MoCA Ethernet Adapter as a connector between your router and your coax outlet.

1. Connect a coaxial cable from the coax outlet to the “Data” port on the MoCA Ethernet Adapter. If needed, use the included RF splitter to add an additional coax connector from the coax outlet.
2. Connect an Ethernet cable from the “2.5G LAN” port of the MoCA Ethernet Adapter to the Ethernet port on the modem/router.
3. Connect your laptop, desktop, or game console devices to the “LAN” ports on the MoCA Ethernet Adapter.
4. Connect the provided Power Adapter to the MoCA Ethernet Adapter.
5. The system light should be yellow. This indicates the MoCA Ethernet Adapter has powered on, and it is ready for other MoCA enabled devices to join the MoCA network.



4. Configure your MoCA Ethernet Adapter

The MoCA Ethernet adapter works out-of-the-box without additional settings. If you want to change settings (such as the IP address), you can configure via the device's Web User Interface.

4.1 Log in the device's Web User Interface

Make sure that the MoCA Ethernet adapter is properly connected to the home network (refer to section 3 on how to install your MoCA Ethernet Adapter).

1. Find the IP address of the MoCA Ethernet Adapter from the home router.
2. Open a web browser and enter the MoCA Ethernet Adapter's IP Address in the address bar.
3. The login dialog box is displayed.
4. Enter the username and password.
Username: admin
Password: password can be found by scanning the QR code on your MoCA Ethernet Adapter's product label.
5. You can use the Web UI to view or change the device settings.

The screenshot shows a web browser window displaying the login page for the MoCA Ethernet Adapter. The page title is "Sign in". The URL bar shows "http://10.194.21.150". Below the URL, a warning message states "Your connection to this site is not private". There are two input fields: "Username" and "Password". The "Username" field is currently empty. Below the input fields, there are two buttons: "Sign in" (a blue button) and "Cancel" (a white button with a grey border).

5. Web User Interface

The MoCA Ethernet Adapter's Web User Interface (Web UI) allows you to check the current status of the device and configure its various functions. Ensure you click the Save button to save your settings after making changes. After completing the configuration, reset the device for the settings to take effect (please refer to Section 5.3.1 on how to reset the device).

Menu

Use the left side of the menu to navigate.



Save

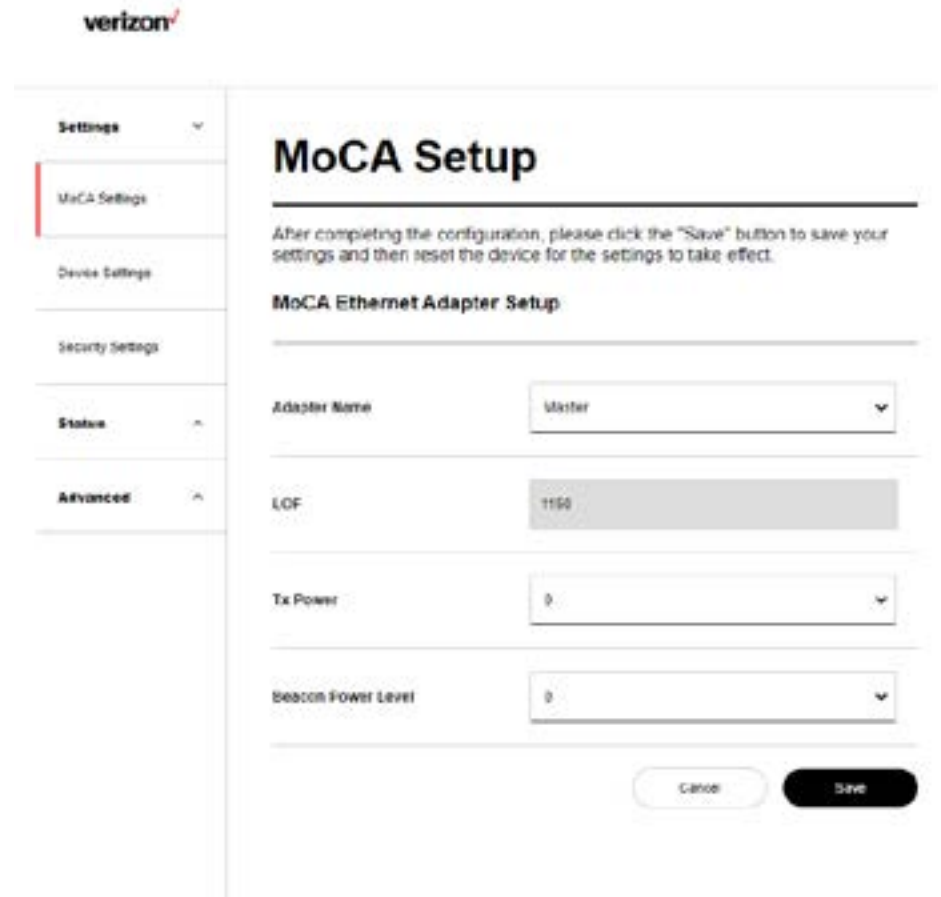
Remember to save your changes by clicking on the save button.



5.1 Settings

5.1.1 MoCA Settings

This page is the first screen you will see when accessing the Web User Interface of MoCA Ethernet Adapter. It allows you to configure the basic MoCA settings of the device. Please ensure to click the “Save” button to save your settings after making changes. After completing the configuration, please Reset the device for the settings to take effect (refer to Section 5.3.2 on how to reset the device).



MoCA Setup

Name You can select the adapter name here to indicate the location of the device.

LOF The Last Operating Frequency (LOF) parameter identifies the frequency (in MHz) that the MoCA Ethernet Adapter uses to transmit beacon for joining the MoCA network.

Tx Power The Tx power parameter is the maximum transmit power of the MoCA Ethernet Adapter. Each incremental value increases the transmit power by 3dB. The following table lists the transmit power for each setting.

value	10	9	8	7	6	5	4	3	2	1	0
dBm	2	-1	-4	-7	-10	-13	-16	-19	-22	-25	-28

Beacon Power Level The beacon power level is the maximum power of the MoCA Ethernet Adapter for beacon transmission power. The value range is from 1 to 10. Each incremental value increases the beacon transmit power by 3dB. When the MoCA Ethernet Adapter is set up with a higher beacon power level, it may interfere with the video devices connected to the coaxial cable. Please leave it at the default setting if you are not sure what value to use.

5.1.2 Device Settings

This page allows you to configure the IP address assignment mode of the MoCA Ethernet Adapter. The IP Address is not needed for normally operating the MoCA Ethernet Adapter. It is only for you to access the Web User Interface of the MoCA Ethernet Adapter.

Please ensure to click the Save button to save your settings after making changes. After completing the configuration, reset the device for the settings to take effect (refer to Section 5.3.2 on how to reset the device).

The screenshot shows the Verizon MoCA Ethernet Adapter web interface. On the left is a navigation menu with the following items: Settings (with a dropdown arrow), MoCA Settings, Device Settings, Security Settings, Status (with an up arrow), and Advanced (with an up arrow). The main content area is titled "Device Setup" and includes a descriptive paragraph: "This page allows you to configure the IP address assignment mode of the MoCA Ethernet Adapter. After completing the configuration, please click the 'Save' button to save your settings and then reset the device for the settings to take effect." Below this is a "Local Setup" section with "IP Configuration" options. The "DHCP & Link Local Automatic Configuration" option is selected with a blue radio button, while the "Static IP Address:" option is unselected with a white radio button. Three input fields are visible: "IP Address" with the value "10.194.21.150", "Netmask" with the value "255.255.255.0", and "Gateway" with the value "10.194.21.1". At the bottom right of the form are two buttons: a white "Cancel" button and a black "Save" button.

Device Setup

DHCP & Link Local
Automatic Configuration

By default, the DHCP & Link Local Automatic Configuration is selected and you will obtain an IP address for the MoCA Ethernet Adapter from your home router. It is recommended to select this mode.

Static IP Address

Select the Static IP Address if you want to manually configure the IP address of the MoCA Ethernet Adapter.

IP Address

This is only needed if the Static IP Address is selected above. Enter the IP address. Please make sure that the IP address of each MoCA Ethernet adapter is unique and is in the same network subnet as the home network.

Netmask

This is only needed if the Static IP Address is selected above. Enter the Netmask.

Gateway

This is only needed if the Static IP Address is selected above. Enter the IP address of your home router.

5.1.3 Security Settings

This page allows you to change the Administrator Security and MoCA Network Security.

Administrator Security

The Administrator password is only used to log in to the Web User Interface of the MoCA Ethernet Adapter. You can find the default password by scanning the QR code on the product label in the back of the MoCA Ethernet Adapter. It is recommended that you change the factory default password to prevent the unauthorized access to the Web User Interface of the device.

MoCA Network Security

The MoCA Network Security password allows you to control which MoCA Ethernet Adapter can join your home MoCA network. When it is enabled, all devices on your MoCA network must use the password designated here to join the MoCA network. By default, this setting is disabled. Note that all devices on your MoCA network must have the same MoCA Network Security setting.

Please ensure to click the [Save](#) button to save your settings after making changes. After completing the configuration, [Reset](#) the device for the settings to take effect (refer to Section 5.3.2 on how to reset the device).

The screenshot shows the Verizon MoCA Ethernet Adapter Web GUI. The Verizon logo is at the top left. A left sidebar contains a 'Settings' menu with options: MoCA Settings, Device Settings, Security Settings (selected), Status, and Advanced. The main content area is titled 'Security' and includes a note: 'After completing the configuration, please click the Save button to save your settings and then reset the device for the settings to take effect.' Below this is the 'Web GUI Admin Security Setup' section with three password input fields: 'Old Password' (with a hint '(Enter old password)'), 'New Password' (with a hint '(63 Characters Max, 4 Characters Min)'), and 'Confirm Password' (with a hint '(63 Characters Max, 4 Characters Min)'). At the bottom of this section are 'Cancel' and 'Save' buttons. The 'MoCA Network Security Setup' section features a table with columns: 'Band', 'Security Enabled', 'New Password', and 'Confirm Password'. The 'Band' is set to 'ALL', 'Security Enabled' is a checkbox (unchecked), and the password fields contain masked characters. 'Cancel' and 'Save' buttons are at the bottom.

Band	Security Enabled	New Password	Confirm Password
ALL	<input type="checkbox"/>	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX

Web GUI Admin Security Setup

Old Password	Enter the old administrator password of the MoCA Ethernet Adapter in the old password textbox.
New Password	Enter your new password in the new password textbox. The password contains any combination of 4-64 characters.
Confirm Password	Retype your new password to confirm the setting.

Note: If the new password is lost or forgotten, it cannot be retrieved and the device will need to be reset to regain access.

MoCA Network Security Setup

Security Enabled	The Network Security allows the user to enable or disable the network encryption on the MoCA network.
New Password	The Network security password must be between 12 to 17 numbers only. Do NOT include spaces, letters, or special characters.
Confirm Password	Retype your new password to confirm the setting.

5.2 Status

5.2.1 Device Status

This page displays the current status and configuration settings of the MoCA Ethernet Adapter.

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Settings

Status

Device Status

Port Status

Advanced

Device Status

This page displays the current status and configuration settings of the MoCA Ethernet Adapter.

Firmware Version:	1.18.1.6
My MoCA Version:	2.5
Network MoCA Version:	2.5
IP Address:	192.168.100.207
MAC Address:	04:68:D4:01:02:03
MoCA Link Status:	Up
Broadcast Channel:	1150
Primary Channel:	1175
Secondary Channel:	1300
First Channel:	1175
Number of Channels:	3
MoCA TX:	Tx Good: 47 Tx Bad: 0 Tx Dropped: 0
MoCA RX:	Rx Good: 38 Rx Bad: 0 Rx Dropped: 0

Device Status

Firmware Version	Display the current Firmware Version.
My MoCA Version	Display the MoCA Version of the device.
Network MoCA	Display the current operating MoCA Network version.
IP Address	Display the current IP Address setting of the MoCA Ethernet Adapter.
MAC Address	Display the current MAC Address.
MoCA Link Status	Display the current Link status of the MoCA network.
Beacon Channel	Display the Beacon Channel frequency.
Primary Channel	Display the Primary Channel frequency.
Secondary Channel	Display the Secondary Channel frequency.
First Channel	Display the First Channel frequency.
Number of Channels	Display the number of MoCA Bonding Channels.
MoCA TX	Display the total number of good, bad, and dropped MoCA packets in the transmit direction of the MoCA interface on the device.
MoCA RX	Display the total number of good, bad, and dropped MoCA packets in the receive direction of the MoCA interface on the device.

5.2.2 PHY Rates

This page displays the transmit and receive MoCA PHY rates (PHY rate in Mbps) between all the MoCA devices operating in the MoCA network. This data rate is an average of the Tx and Rx data rates between MoCA devices.

The screenshot shows the Verizon MoCA PHY Rates web interface. On the left is a navigation menu with options: Settings, Status, Device Status, PHY Rates (highlighted), and Advanced. The main content area is titled "PHY Rates" and includes a description: "The following table shows the PHY rate in Megabits per second (Mbps) between MoCA Ethernet Adapters on the network." Below this is a note: "NOTE: Either NPER or VLPER will be displayed for MoCA 2.5 nodes based on value of boot config parameter 'opricityper'." There are two radio buttons for "Type": "Unicast NPER" (selected) and "Unicast VLPER". A table displays the PHY rate data:

From/To	0
0	NA

Below the table is a legend:

MoCA 2.5	MoCA 2.0	MoCA 1.x	GCD
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A "Refresh" button is located at the bottom right of the interface.

PHY Rates

Unicast NPER

Display the NPER PHY rate in Mbps. Default is NPER.

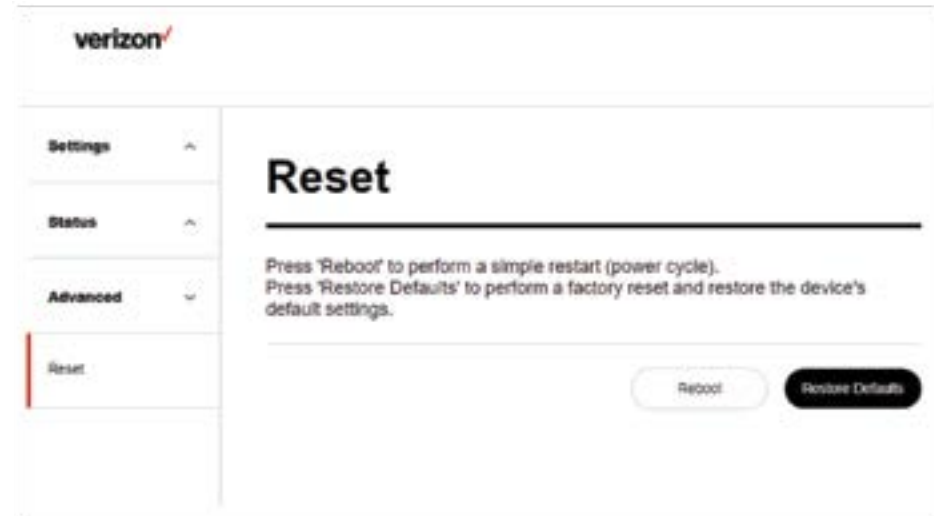
Unicast VLPER

Display the VLPER PHY rate in Mbps.

5.3 Advanced

5.3.1 Reset

You can reset the device or reset all the settings of the device to factory defaults at this page. The buttons Reboot or Restore Defaults will restart the system. You may need to look up the IP address and use the default username and password if the Restore Defaults is performed.



Reset

Reboot

Click the Reboot button to restart the system. It takes around 10 seconds to reboot the device.

Restore Defaults

Click the Restore Defaults button to restore the settings of the device to factory default values.

6. Troubleshooting

If you encounter any issues, please read this section for recommendations on some common problems.

Cannot log in to the Web UI

If you cannot access the Web UI, it might be an issue with your device or computer's proxy or IP address settings. Make sure that the proxy settings are disabled and that your device or computer can be allocated an IP address on the network by the gateway's DHCP server. You will need to check the support for your device or computer's operating system e.g. Windows, Mac OS, for the detailed instructions about how to do this.

Make sure that you have the correct IP address of the MoCA Ethernet Adapter as well as the correct username and password.

Note: If the new password is lost or forgotten, it cannot be retrieved and the device will need to be reset to regain access.

Where can I get more help?

Visit <https://www.verizon.com/support/residential/contact-us/contactuslanding.htm> to find your nearest Verizon store or for 24/7 help with live chat and device specific support.

7. Technical specification

General	ASK-MAE340
MoCA Standard	MoCA 2.5
Coax in Frequency	Extended D-Band
F-Connector	F-Connector * 1 (for Data)
Ethernet Ports	2.5G RJ-45 * 1 1G RJ-45 * 3
Power Adapter	12V, 1A
Certificates	FCC, UL, MoCA 2.5 Certificate
Dimension	107 x 107 x 30.6mm
Operating Temperature Range	0 – 40 °C
Storage Temperature Range	-20 – 80 °C

8. Regulatory Compliance Notices

FCC Class B Equipment

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide a reasonable protection against harmful interference in a residential installation. This equipment generates and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference with the radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try and correct the interference by implementing one or more of the following measures:

- Reorient or relocate the device.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected (applicable only to powerline products).
- Consult the dealer or an experienced radio or television technician for help.

Declaration of Conformity for Products Marked with the FCC Logo— USA Only

This device complies with Part 15 of the FCC Rules license-exempt RSS standard(s). Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation of the device.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Important Safety Notices

Coaxial Cable

If applicable, the coaxial cable screen shield needs to be connected to the Earth at the building entrance per ANSI/NFPA 70, the National Electrical Code (NEC), Section 820.93, "Grounding of Outer Conductive Shield of a Coaxial Cable," or in accordance with local regulation.

Safety Warnings

The equipment should be mounted at a height of less than 2 m.

This product is intended to be supplied by a UL Listed Power Adapter or DC power source marked `L.P.S' or `Limited Power Source', rated 12Vdc, 1 A and Tma 40°C (min.). If you require further assistance, please contact your Askey Computer Corp representative.