



MoCA[®] Adapter

Quick Start



Model MM1000

Packaged with your MM1000 MoCA Adapter



Power Cube
(varies by country)



Coax Cable



Ethernet Cable



Wrench



Screws

Your MoCA adapter can be wall mounted if you prefer.
See the enclosed flyer.

Para una Guía de Inicio Rápido en español, por favor vaya a www.motorolanetwork.com/MM1000IR



Let's get started

MoCA is a good way to connect a router or cable modem/router to a distant device by using your home's coaxial ("coax") cable. The device can be a computer, HDTV, game station, or other device that has an Ethernet LAN port for Internet access. If there's a coax network that runs near the router and the device, you should be able to use MoCA.

MoCA is also a good way to connect your router to a wireless access point, so you'll have good wireless in a location that's far from your router. If you want to learn more about using MoCA with a WiFi router, go to

www.MotorolaNetwork.com/MocaWiFi

Your MoCA Adapter Model MM1000 is designed to work with most coax networks including networks associated with cable TV, cable Internet, and FiOS or another fiber optic network.

Your MoCA Adapter is NOT designed to work with DirecTV®, Dish®, and other satellite networks, or with AT&T® Internet or AT&T U-Verse®, since these services use frequencies that conflict with your MoCA adapter.

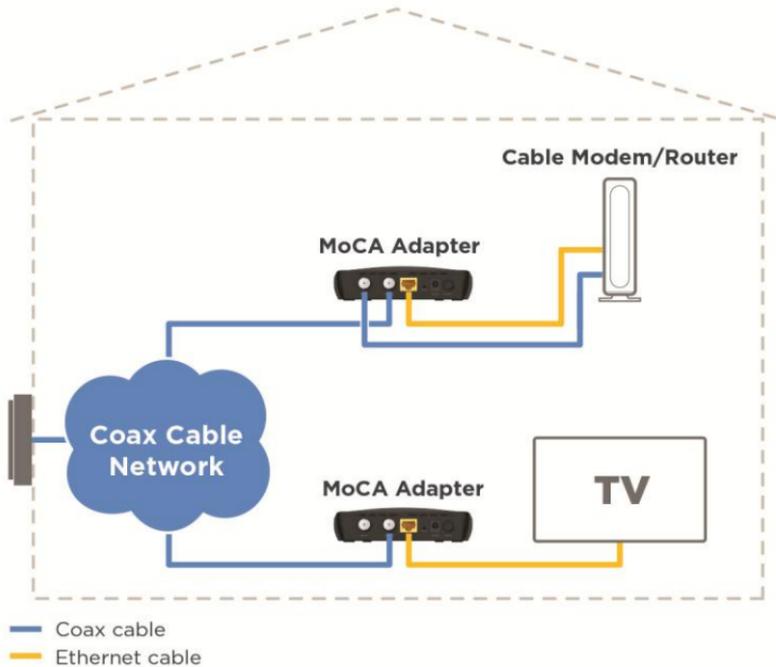


Figure 1. MoCA Connecting a Cable Modem/Router to an HDTV

Figure 1 shows MoCA connecting a cable modem/router to an HDTV. MoCA is also good for connecting a router or cable modem/router to a computer, game station, wireless access point, or other device that has an Ethernet LAN port.

Sometimes your router has MoCA capability already, so you don't need to install a MoCA adapter for the router. Here's how to check whether your router has built-in MoCA capability.

- a. If you have a Verizon® FiOS router, it probably has MoCA. The MoCA signal goes through your FiOS router's coax connector to your coax cable network.
- b. If you have a router for fiber optic service from another provider and it has a coax cable attached to it, it probably has Moca.
- c. If you have a cable modem/router, it may have MoCA. There are a few ways to check. First, you can look at the unit to see whether it has the word MoCA somewhere. You can also look at the product's specifications or its browser-based configuration manager to see whether MoCA is mentioned. You can also find some but not all MoCA cable modem/routers listed at <http://www.mocalliance.org/products/index.htm> . If you have MoCA, the MoCA signal goes through your cable modem/router's coax cable into your coax cable network.
- d. If you have a router that's not a Verizon FiOS router, another fiber optic router, or a cable modem/router, it probably does not have MoCA.

If you have or probably have MoCA for your router already, please jump to **Installing a MoCA Adapter for an HDTV or Other Device**.

If you do not have MoCA for your router or cable modem/router, please continue below at **Installing a MoCA Adapter for Your Router or Cable Modem/Router**.

If you're not sure, you can try jumping to **Installing a MoCA Adapter for an HDTV or Other Device** and seeing whether that works. If that doesn't work, you'll need to continue directly below.

Installing a MoCA Adapter for Your Router or Cable Modem/Router

First go to your **router** or **modem/router** and connect as shown below.

1. You always connect a coax cable to the MoCA Adapter's Network input and your coax network. Sometimes there's an available coax network jack or cable, so you don't need to disconnect anything. However, you may need to use the coax cable that's plugged into a nearby set-top box, cable modem/router, or other device. It's okay to disconnect a coax cable from something, but then you need to use the included coax cable between the MoCA adapter's DEVICE coax and the device you disconnected.
2. Next, connect the included Ethernet cable between the MoCA adapter's Ethernet jack and the LAN Ethernet jack of the router or modem/router.
3. Plug the power cube into a live outlet, and make sure that the On/Off button is On.

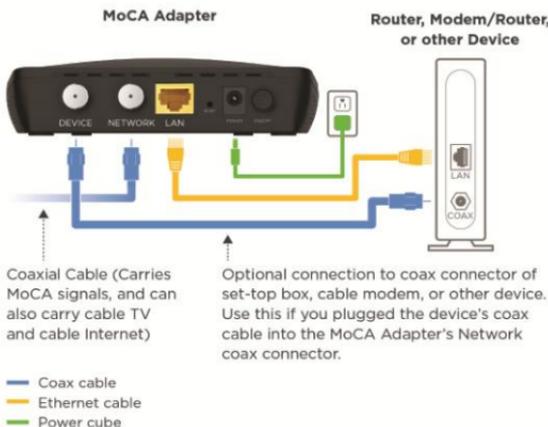


Figure 2. MoCA Connection to a Router that Doesn't Have Built-in MoCA



Installing a MoCA Adapter for an HDTV or Other Device

Now go to the **device** you're connecting to the router, and connect as shown below.

1. You always connect a coax cable to the MoCA Adapter's Network input and your coax network. Sometimes there's an available coax network jack or cable, so you don't need to disconnect anything. However, you may need to connect the Network coax connector to a coax cable that's plugged into a nearby set-top box, router, or other device. It's okay to disconnect a coax cable from something, but then you need to use the included coax cable between the MoCA adapter's DEVICE coax and the device you disconnected.
2. Connect the included Ethernet cable between the MoCA adapter's Ethernet jack and the LAN Ethernet jack of the device you're connecting to the router via MoCA.
3. Plug the power cube into a live outlet, and make sure that the On/Off button is On.

Once you have MoCA for your router and device, the Link light should be lit for your MoCA Adapter(s). If it's not lit, check your wiring and try power-cycling your MoCA Adapter(s). To power-cycle a MoCA Adapter, just switch the MoCA Adapter off for a few seconds, then switch it on.

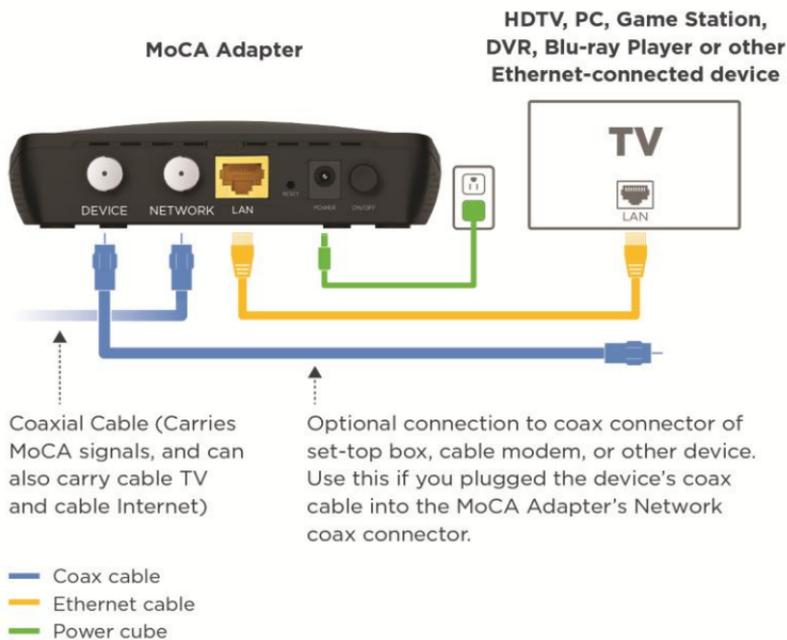


Figure 3. MoCA Connection for a Device

Once you've connected the router and device, try using the device to access the Internet. Some HDTVs and other devices have a setup section where you need to set up the Ethernet connection. Do that first if necessary, and then access the Internet through Netflix® or some other Internet TV service, or through a Web browser. If it works, congratulations! You're done unless you want to connect more devices. If it doesn't work, please go to the Troubleshooting Tips section.

You can connect up to 16 devices back to the router. For each device you want to connect to its own MoCA Adapter, use the **MoCA Connection for a Device** diagram directly above.

Troubleshooting Tips

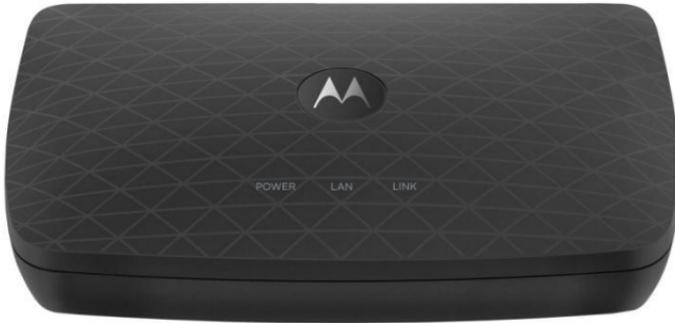
1. If you have a problem, re-read this Quick Start. Did you connect your MoCA Adapter(s) correctly? Are all MoCA Adapters powered on? Is the Link light **on** for any MoCA Adapter, as it should be? If both Link lights are not lit, try power-cycling any MoCA Adapter you installed.
2. Make sure you're not trying to use the MoCA adapters with DirecTV or some other satellite TV, or with AT&T Internet or AT&T U-Verse.
3. If the Link light is **lit** for your MoCA Adapter(s), check that your router is on and that your device is set up correctly. If you're unsure about the setup of your HDTV or other device, try replacing it with a computer and seeing whether the computer browser works. If it does, there's probably a problem with your device's setup. Re-read that device's setup instructions.
4. If the Link light is **not lit** for your MoCA Adapter(s), check that any MoCA Adapters are connected correctly and powered on. Try power-cycling any MoCA Adapters. If possible try plugging a TV or other device into the coax jack to check that the jack is working properly.
5. Check to see whether there is a coax splitter near your router and/or the device that you want to connect to the router using MoCA. If you find a splitter, its frequency range should be shown on its label. Make sure that the upper frequency is at least 1,000 MHz (also called 1 GHz). If it's not, replace that splitter. You may be able to swap with another splitter that's in your home. If that's not possible, you may need to buy a splitter whose upper frequency is at least 1,000 MHz and preferably at least 1,600 MHz. Check also to make sure that you're not using



an amplified splitter. If you are using an amplified splitter, replace it with one that's not amplified and whose upper frequency is at least 1,000 MHz.

6. Check the rest of your coax network to make sure splitters have an upper frequency of at least 1,000 MHz and are not amplified. Replace any splitter that is amplified or whose upper frequency is below 1,000 MHz.
7. Sometimes there are extra splitters in places you don't see them, and this can cause a problem.
8. You may need to make a change to your coax network. See www.motorolanetwork.com/coax for details.
9. In rare cases a home may have two different networks, each connecting to a cable box outside the home. If your router is on one network and the device you're trying to connect is on another network, MoCA will probably not work for you. In that case you should try some other connection technology such as WiFi or home powerline networking.

Top Panel



LIGHT	COLOR	DESCRIPTION
POWER	Green	ON: MM1000 power on OFF: MM1000 power off
LAN	Green	Green: Powered-up Ethernet connection to your MoCA Adapter Blinking: Data being sent OFF: No powered-up Ethernet connection to your MoCA Adapter
LINK	Green	ON: MoCA connection established Blinking: Data being sent OFF: MoCA connection not established

Back Panel



DEVICE

This can be connected to a device whose coaxial cable was removed and plugged into NETWORK. See this Quick Start for details.

NETWORK

This should connect to your coax network.

LAN

This should connect to the Router or Device you're connecting to MoCA.

RESET

Press the reset button for 3 seconds in the unlikely event that you need to reset your MoCA adapter to factory defaults.

POWER

Connect the supplied power cube between the power jack and an electrical outlet.

ON/OFF

Press this button to switch the MoCA Adapter's power On or Off.

We like to help.

Please visit our support Website or call our support specialists. Our Website has our Motorola Mentor information, and also provides returns and warranty information.

www.motorolanetwork.com/support

Email: support@motorolanetwork.com

Phone:

In the US and most other countries:

800-753-0797 or +1 617-753-0562

UK: +44 800 023 9083

Spain: +34 900 839 783

Limited Warranty

MTRLC LLC warrants this product against defects in material and workmanship for a warranty period of 2 years. To read the full warranty, please go to

www.motorolanetwork.com/warranty

Safety Precautions

These precautions help protect you and your MM1000.

- Do not put the MM1000 or its power cube in water, since this is a shock hazard.
- Do not use the MM1000 outdoors if that exposes the adapter to rain, snow, ice, excessive moisture, extreme temperatures, or other extreme conditions.
- Your MM1000 should be operated in an environment that's between 32 and 104° Fahrenheit (0 to 40° Centigrade).
- Your MM1000 should not be in a confined space. There should be room for air flow around the top, front, and sides of the MM1000.
- Make sure to use your MM1000's power cube and a compatible electrical outlet.
- The coaxial cable's ground shield is intended to be connected to the building's Earth ground. Attachment to earth ground is typically provided through your cable service provider's installation.

FCC Statement

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This device complies with Class B Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: 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 reasonable protection against harmful interference in a residential installation. This equipment generates, uses, 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 to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: reorient or relocate the receiving antenna, increase the separation between the equipment and receiver, connect the equipment into an outlet on a circuit different from that to which the receiver is connected, and/or consult the dealer or an experienced radio/TV technician for help.



DC input connector is center-pin positive polarity.



WEEE is a directive in the EU that designates safe and responsible collection, recycling, and recovery procedures for electronic waste.

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