

MN2525 / MN2550



MoCA 2.5 Network Adapter with TV Extension

- Boost the speed and performance of home networking to reach up to 2.5 Gbps Ethernet with the new MoCA 2.5 technology
- Configurable high-frequency modulation (1.1GHz to 1.6GHz) allows Cable TV (DOCSIS 3.0/3.1), Satellite TV and other TV signal overlay without interference
- Turn any coaxial outlet to high-speed Ethernet / IP connection to deliver high-definition video streaming, and high-speed Internet inside home
- Supplement and extend the existing Wi-Fi network with high-speed wired connection over in-home coaxial drops
- Enable tablets, smart phones, gaming APPS/consoles and 4K/8K HDTV to access content simultaneously
- Work over the existing home coaxial wirings without re-wiring of Ethernet cables
- Plug-and-play installation
- Enhance Wi-Fi network over coaxial wirings to reach wired speed and coverage reliability to offload Wi-Fi gateway/router for content transfer between smart devices
- Support IPv4 / IPv6, TR069, DHCP and console configuration
- Up to 16 MoCA 2.5 Adapters can be connected to build meshed Home Network over coaxial cabling in house



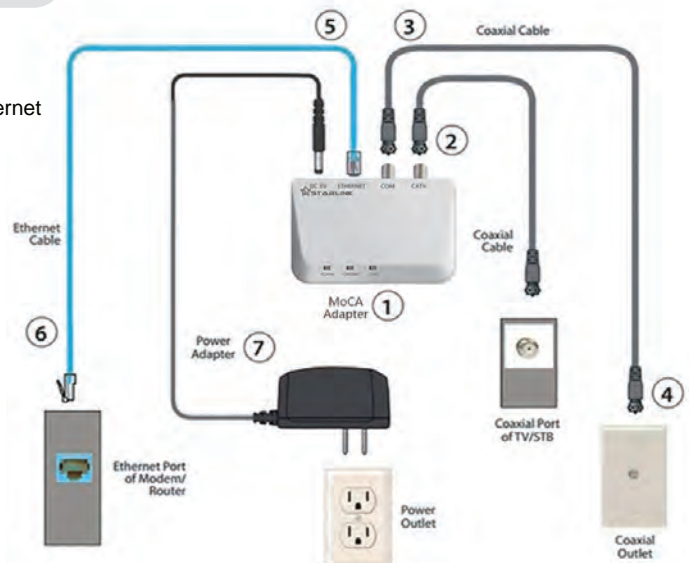
MN2525 MoCA 2.5 Network Adapter



MN2550 MoCA 2.5 Network Adapter

Connecting the First Adapter

- 1 Locate the coaxial outlet in home desired to place the Adapter. If Web browsing is needed, locate the coaxial outlet nears the home modem or router provided by Internet Service Provider.
Unplug the end of the coaxial cable connected to the TV set or set-top box from its coaxial wall outlet. If no TV set or set-top box is plugged into this coaxial outlet, skip to step 3.
- 2 Connect the end of the coaxial cable removed in step 1 into the coaxial port labeled CATV (MN2525) or TV (MN2550) on the side of the Adapter.
- 3 Connect one end of another coaxial cable into the coaxial port labeled COM (MN2525) or MoCA (MN2550) on the side of the Adapter.
- 4 Connect the other end of the coaxial cable installed in step 3 to the wall outlet left unconnected in step 1.
- 5 Connect one end of an Ethernet cable into the ETHERNET (MN2525) or LAN1 (MN2550) port on the side of the Adapter.
- 6 Connect the other end of the Ethernet cable into the Ethernet port of home modem or router if Web browsing is needed. Or connect the other end of the Ethernet cable into the Ethernet port of the device to connect to Internet.
- 7 Plug in the provided power adapter into the power port on the side of the Adapter. Plug the other end of the power adapter into an electrical outlet or power source.



The Internet and optional TV signals are now being delivered across the coaxial network.

MN2525 Make sure the POWER, ETHERNET and COAX LED glows or blinks green.

MN2550 Make sure the Power, MoCA and System LED glows green. LAN1 / LAN2 Ethernet port LED glows green and/or blinks amber.

Connecting the Adapter without TV Signal (Ethernet Only)

- 1 Locate the coaxial outlet in home desired to place the Adapter.
- 2 Connect one end of an Ethernet cable into the ETHERNET (MN2525) or LAN1 (MN2550) port on the side of the Adapter.
- 3 Connect the other end of the Ethernet cable into the Ethernet port of a computer or a Ethernet switch.
- 4 Connect one end of another coaxial cable into the coaxial port labeled COM (MN2525) or MoCA (MN2550) on the side of the Adapter.
- 5 Connect the other end of the coaxial cable installed in step 4 to the wall outlet.
- 6 Repeat step 1 to step 5 at the other coaxial outlet in home.
- 7 Two computers or Ethernet switches are now connected in private local area network (LAN) to exchange or transfer data via the Adapters.

MN2525 / MN2550 Adapter Web Management (Optional)

- 1 Connect the ETHERNET (MN2525) or LAN1 / LAN2 (MN2550) port of the Adapter and the Ethernet port of a computer with an Ethernet cable. Power on the Adapter.
- 2 Configure the IP address of the computer to be 192.168.144.100.
- 3 Launch a Web browser on computer and type <http://192.168.144.200> to login with user name: **admin**, password: **maxlinear**
- 4 On the Web management page of the Adapter, current configurations and operational status, such as frequency range, transmission rate, IP address and other Adapter information can be changed and reviewed.

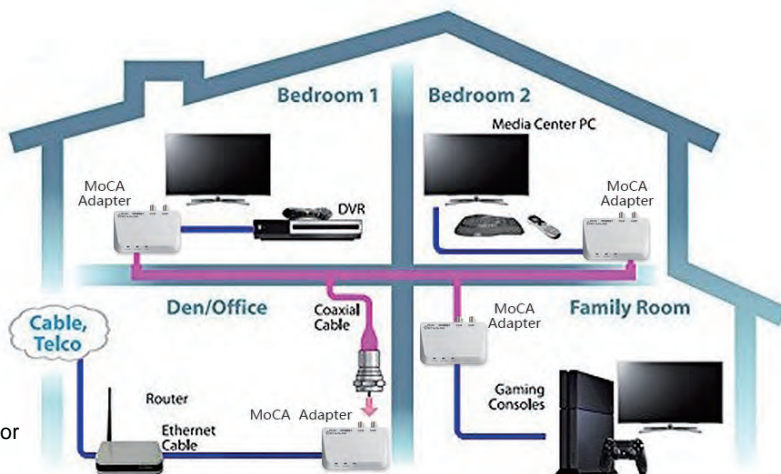
MN2525 / MN2550



MoCA 2.5 Network Adapter with TV Extension

Connecting Additional Adapters

1. Locate the coaxial outlet in home desired to place the Adapter. Unplug the end of the coaxial cable connected to the TV set or set-top box from its coaxial wall outlet. If no TV set or set-top box is plugged into this coaxial outlet, skip to step 3.
2. Connect the end of the coaxial cable removed in step 1 into the coaxial port labeled CATV (MN2525) or TV (MN2550) on the side of the Adapter.
3. Connect one end of another coaxial cable into the coaxial port labeled COM (MN2525) or MoCA (MN2550) on the side of the Adapter.
4. Connect the other end of the coaxial cable installed in step 3 to the wall outlet left unconnected in step 1.
5. Connect one end of an Ethernet cable into the ETHERNET (MN2525) or LAN1 (MN2550) port on the side of the Adapter.
6. Connect the other end of the Ethernet cable into the Ethernet port of the device to be connected to Internet. The extra Ethernet port (LAN1 or LAN2) on MN2550 can be connected to additional computer or network device.
7. Plug in the provided power adapter into the power port on the side of the Adapter. Plug the other end of the power adapter into an electrical outlet or power source.
8. Repeat step 2 to step 7 to install other Adapter in other room.
9. Maximum 16 Adapters can be connected through coaxial cabling in house to build Home Network. One of them can connect to the home modem or router installed by Internet Service Provider for Internet access.



The Internet and optional TV signals are now being delivered across the coaxial network.

MN2525 Make sure the POWER, ETHERNET and COAX LED glows or blinks green.

MN2550 Make sure the Power, MoCA and System LED glows green. LAN1 / LAN2 Ethernet port LED glows green and/or blinks amber.

MN2525/MN2550 Adapter Specifications (subject to change without notice)

MoCA 2.5	
Chipset	Maxlinear MXL3710; 32 Mbit SPI Flash
Operating Frequency	1125 MHz to 1675 MHz Configurable Extended D Band
Transmit Return Loss	≥ 6 dB Relative to 75Ω
Output Power	+7dBm; 5 x 100MHz Channels
Input Power	-50dBm to +1dBm
Modulation	OFDM 1024 QAM, TDD
PHY Data Rate	MN2525 2.0 Gbps MN2550 2.5 Gbps
MAC Data Rate	MN2525 Full-Duplex 1 Gbps MN2550 2 x Full-Duplex 1 Gbps
Application Protocol	VLANs, 802.11p, IGMP v1/2/3, 128-bit AES Encryption
Management	Web Based Configuration via 1000Base-T Connection
Ethernet	
Ethernet	IEEE802.3, IEEE802.3az
Interface	MN2525 1000 Base-T MDI/MDIX, 2 x 75Ω F MN2550 2 x 1000 Base-T MDI/MDIX, 2 x 75Ω F
Radio Frequency / TV	
Frequency Range	5 MHz to 1002 MHz
Transmit Return Loss	≥ 14 dB Relative to 75Ω
Insertion Loss	-2.5 dB
Band Flatness	2 dB
Power Supply	
Power Supply	100 - 240 VAC, 50/60 Hz; 12 VDC, max. 0.5 A, 1.3 mm PSU Wall Plug
Power Consumption	< 3 watts
Hardware	
Dimension W x D x H	4.3" x 2.8" x 1.1" (110 mm x 70 mm x 28 mm)
Weight	3.2 oz (90 g)
LED	MN2525 POWER (green), ETHERNET (green), COAX (green) MN2550 Power (green), System (green), MoCA (green) LAN1/LAN2 Link (green), Activity (amber)
Connectors	MN2525 DC Input, 1000Base-T RJ 45, COM (MoCA) 75Ω F, CATV 75Ω F, RESET MN2550 DC Input, 2 x 1000Base-T RJ 45, MoCA 75Ω F, TV 75Ω F, RESET
Environment and Safety	
Temperature	Operating 22°F to 113°F (-5°C to 45°C); Storage -4°F to 185°F (-20°C to 85°C)
Operating/Storage Humidity	Non-Condensing; Altitude < 2000 m Operation 10% to 85%; Storage 5% to 90%
FCC Certificate	CISPR PUB. 22, FCC Part 15 Subpart B
RoHS	RoHS 2.0 Standard 2011/65/EU, Amendment 2015/863/EU
MTBF	> 300,000 hours Telcordia SR-332
AFR in Continuous Operation	< 1.5%



MN2525 MoCA 2.5 Network Adapter



MN2550 MoCA 2.5 Network Adapter

Warranty

MN2525 / MN2550 has one-year Limited Hardware Warranty and 90-day free software updates after purchase. This Limited Warranty Statement gives the customer specific legal rights. The customer may also have other rights which vary from State to State in the United States, from province to province in Canada, and from country to country elsewhere in the world. To the extent that this Limited Warranty Statement shall be deemed modified to be consistent with such local law. Under such local law, certain disclaimers and limitations of this Warranty Statement may not apply to the customer.

