

MN2580W

MoCA 2.5 Access Point with 802.11ac Wi-Fi and 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 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 with MoCA Protection Setup (MPS)
- Dual-band 2.4GHz and 5GHz 802.11 b/a/g/n/ac Wi-Fi Access Point over coaxial wirings to reach wired speed and coverage reliability for content transfer between smart devices
- Support IPv4 / IPv6, TR069, DHCP and Web configuration
- Up to 16 MoCA 2.5 adapters and/or Access Points can be connected to build Home Network with Wi-Fi coverage over coaxial cabling in house

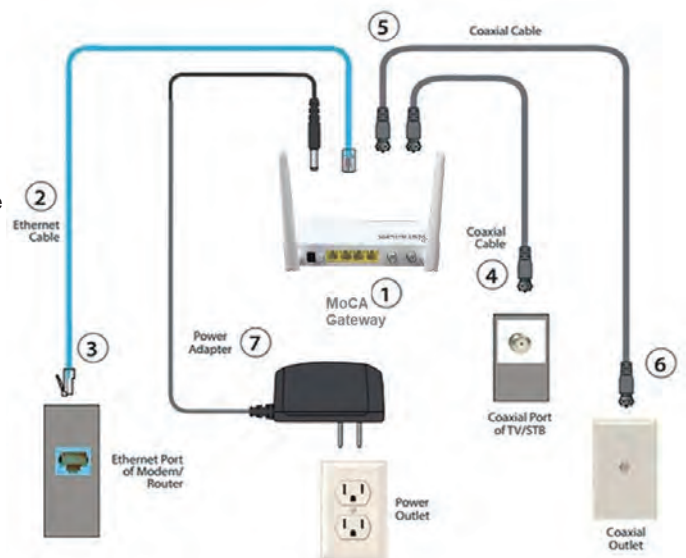
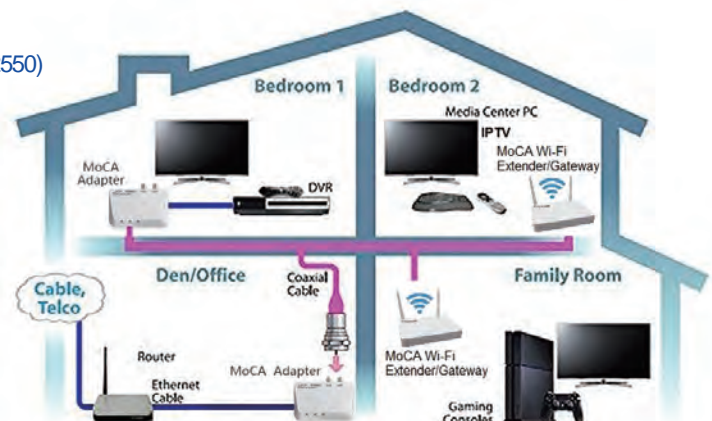


MN2580W MoCA 2.5 Access Point

MN2580W Access Point can work with any MoCA 2.5 adapters (like MN2525 / MN2550) to extend Wi-Fi coverage at the far end of the coax network. Refer to the MoCA 2.5 adapter information to install the first MoCA adapter nears the home gateway if Internet access is required.

Connecting the MoCA 2.5 Access Point

- ① Locate the coaxial outlet in home desired to place the Access Point. 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 or TV on the side of the Access Point.
- ③ Connect one end of another coaxial cable into the coaxial port labeled MoCA on the side of the Access Point.
- 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 any LAN port on the side of the Access Point.
- 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 to LAN4) 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 The Access Point's default SSID and password are labeled on the unit. Both 2.4GHz (802.11 b/g/n/ac) and 5GHz (802.11ac) Wi-Fi access points should be available for joining. Refer to the Start Guide to configure SSID, password, firewall, and security settings of the Access Point.
- 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.



Wi-Fi and wired Internet and optional TV signals are now being delivered across the coaxial network. Make sure the Power, MoCA, 2.4GHz and 5GHz (Wi-Fi) LEDs glow green. LAN1 / LAN2 / LAN3 / LAN4 Ethernet port LEDs glow green and/or blink amber if connected.

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Wi-Fi Access Point Configuration

- Locate the default 2.4GHz and 5GHz SSIDs and password label on the unit.
For example
2.4G SSID mt7603e-1234
5G SSID mt7612e-1234
password 1234567890
Power on the Access Point.
- Use a computer or smart device to join any SSID of the Access Point.
- Launch the Web Browser from the computer or smart device and type <http://192.168.1.1> to login with user name: **root**, password: **root**.
- On the (MediaTek) Web management pages of the Access Point, following settings can be changed and reviewed.
 - Status** Firewall (IPv4 and IPv6), Overview, Route, Realtime Graphs, Process, Kernal
 - System** Administration, Firmware/Software, LED, Scheduled Task, Startup, System
 - Network** DHCP & DNS, Firewall, Interface, Wi-Fi, QoS, Static Route, Switch, Diagnostics

MoCA Configuration (Optional)

- Connect the LAN1 port of the Access Point and the Ethernet port of a computer with an Ethernet cable.
Power on the Adapter.
- Configure the IP address of the computer to be 192.168.144.100.
- Launch the Web browser from the computer and type <http://192.168.144.200> to login with user name: **admin**, password: **maxlinear**
- On the (Maxlinear) Web management pages 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.

MN2580W Access Point 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	2.5 Gbps
MAC Data Rate	4 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	
Standard	IEEE802.3, IEEE802.3az
Interface	4 x 1000 Base-T MDI/MDIX, 802.11 a/b/g/n/ac
Radio Frequency Diplexer/ TV	
Frequency Range	Low Pass: 5 MHz to 1002 MHz High Pass: 1125 MHz to 1675 MHz
Transmit Return Loss	Low Pass: ≥ 14 dB, High Pass: ≥ 12 dB Relative to 75Ω
Insertion Loss	Low Pass: -2 dB, High Pass: -2.5 dB
Power Supply	
Power Supply	100 - 240 VAC, 50/60 Hz; 12 VDC, max. 1A, 1.3 mm PSU Wall Plug
Power Consumption	< 10 watts
Hardware	
Dimension W x D x H	7.1" x 5.1" x 1.2" (180 mm x 130 mm x 30 mm)
Weight	11 oz (317 g)
LED	Power (green) LAN 1 - LAN 4 (Link/Activity green), Coax (MoCA green) Wi-Fi 2.4 GHz (green), Wi-Fi 5 GHz (green)
Connectors	DC Input, 4 x 1000Base-T RJ 45, MoCA 75Ω F, TV 75Ω F, MPS Paring
Environment and Safety	
Temperature	Operating 22°F to 113°F (0°C to 40°C) Storage -4°F to 185°F (-20°C to 60°C)
Operating/Storage Humidity	Non-Condensing; Altitude < 2000 m Operation 20% to 85%; Storage 5% to 95% non-condensing
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%
Rough Handling Shock	IEC 60028-2-31
Vibration (sinusoidal)	IEC 60028-2-6

Wi-Fi Access Point	
Frequency Band	2.4 GHz and 5 GHz
Standard	IEEE 802.11 a/b/g/n/ac
Speed	2.4 GHz 2x2 MIMO 802.11n; max. speed 300 Mbps
	5 GHz 2x2 MIMO 802.11ac; max. speed 867 Mbps
Antenna	5 dBi external
Security	WPA-PSK/WPA-PSK2 Encryption
	Wireless Access Control (Blacklist vs. Whitelist)
	SSID Hiding
Modulation	Smart Unauthorized Access Prevention
	802.11b: DSSS - DBPSK (1 Mbps), DQPSK (2 Mbps), CCK (5.5/11 Mbps)
	802.11 a/g: OFDM - BPSK (6/9 Mbps), QPSK (12/18 Mbps), 16QAM (24/36 Mbps)
Operating System	802.11n: MIMO-OFDM - BPSK, QPSK, 16QAM, 64QAM; Rate Set - MCS0 to MCS15
	802.11ac: MIMO-OFDM - BPSK, QPSK, 16QAM, 64 QAM, 256QAM; Rate Set - MCS0 to MCS9 (2 streams)
Management	OpenWRT
Routing	Web Based Configuration
	DHCP, PPPoE



Warranty

MN2580W 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.