

deco™ | Ultra Fast Mesh Network with
Leading 5G

5G Wi-Fi 6

5G Whole Home Mesh Wi-Fi 6 Gateway

Latest Technology, Ultra Experience

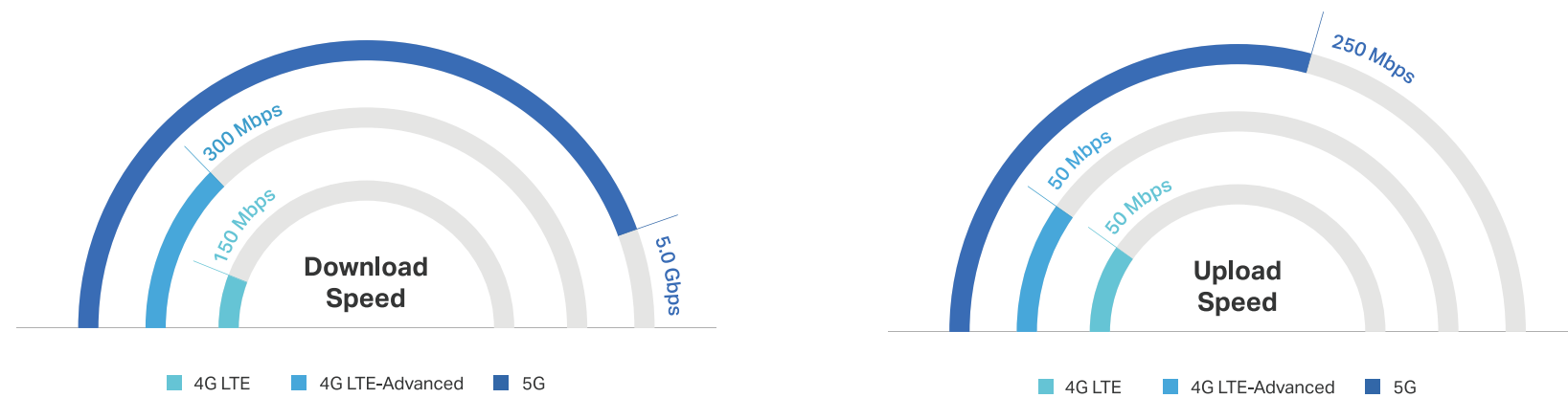
Deco X80-5G



Highlights

5G: The 5th Generation of Cellular Networks

5G networks offer faster speed and lower latency on smart phones, CPEs, and other devices than ever before.

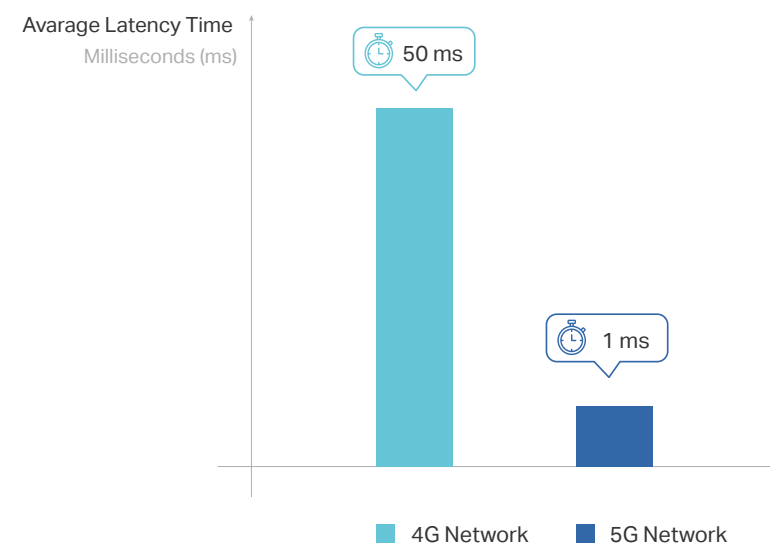


Faster Speeds

5G's download speed has been raised to 5.0 Gbps (based on R15 Sub-6 GHz)—16.7 times faster than 4G LTE-Advanced and 33 times than 4G LTE. For instance, a 5G device can download a 3 GB file within 35 seconds when it reaches the downstream speed of 700 Mbps.

Lower Latency

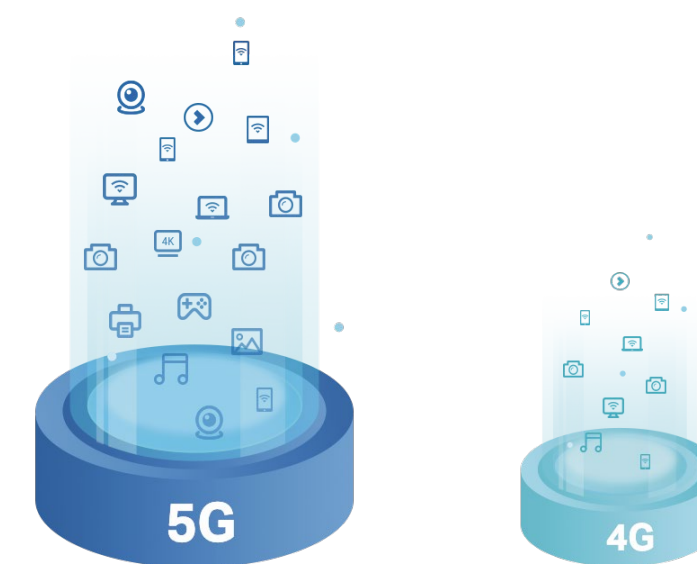
Taking a giant leap forward in connectivity, 5G brings fast responsive network connections to tomorrow's mobile devices, which greatly enhances the experience when you play real-time games. The low latency also helps the emerging IoT industry as shown below.



Denser Connection

As the IoT market accelerates, many more devices will be connected to cells, with a million devices per square kilometer under 5G network.

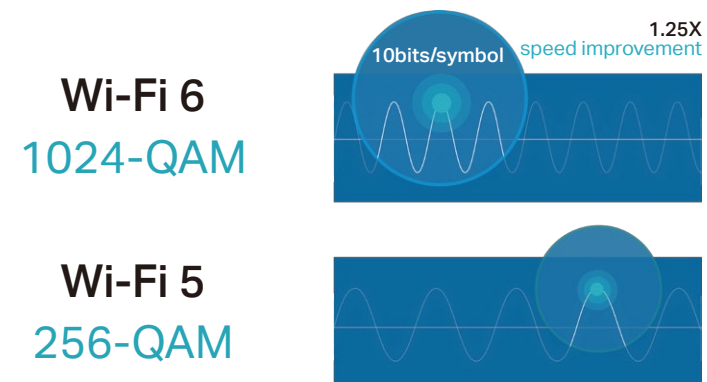
The Number of Devices per 1 km² Supports



Highlights

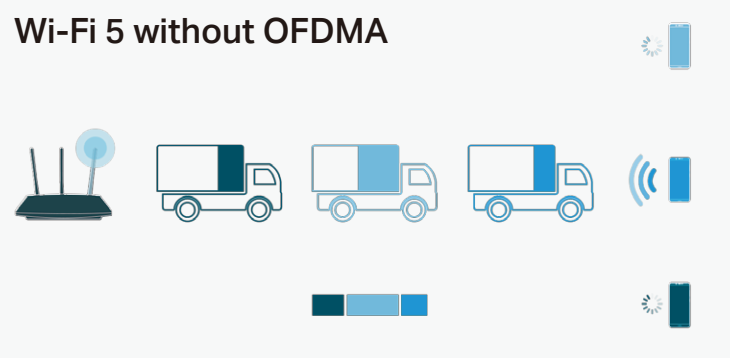
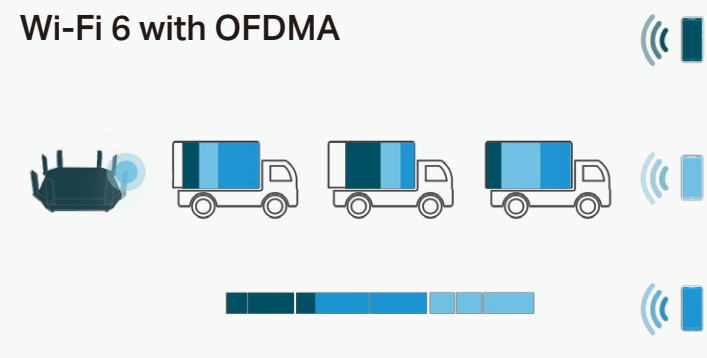
Wi-Fi 6: Meet the 6th Generation of Wi-Fi

Wi-Fi 6 is designed to improve overall spectral efficiency, especially in dense usage scenarios.



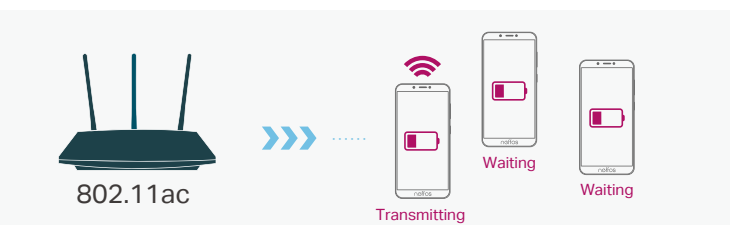
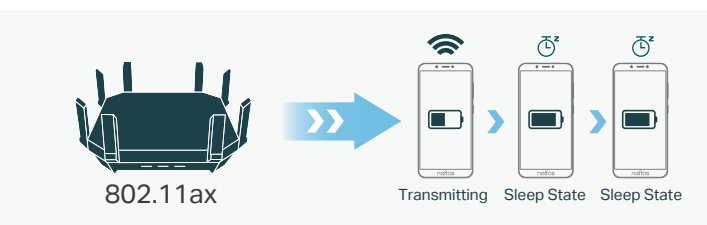
Faster Speeds

Wi-Fi 6 single stream's speed has been raised to 1.2 Gbps—20% faster than connecting through a gigabit Ethernet cable. More devices can share high-speed Wi-Fi at the same time. Watch Netflix at home or live stream from your home computer. Streaming just got that much better.



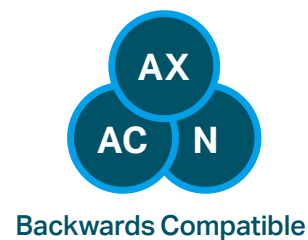
Connect More and Stay Smooth

OFDMA makes Wi-Fi sharing enjoyable by drastically improving the efficiency of Wi-Fi transmissions. Your friend's video chat or family member's download can share the same broadcast as your gaming—just as long as your bandwidth is sufficient—cutting latency and improving average speed.



Prolong Your Mobile Devices' Battery Lives

Tired of recharging your IoT devices? Wi-Fi 6 utilizes Target Wake Time to schedule transmissions. When your mobile devices are on standby, Wi-Fi 6 substantially preserves battery power.



Backwards Compatible

Wi-Fi 6 handles more data for multiple applications. Upgrading to a Wi-Fi 6 router benefits your existing devices immediately. You won't need to upgrade for several years.

Highlights

Deco Mesh : Wi-Fi Dead-Zone Killer

Deco units work together to form a unified Wi-Fi network with a single network name. Walk through your home and stay connected with the fastest possible speeds made possible by Deco's seamless coverage and Plug & Play Mesh Technology. Eliminate weak signal areas with a single Wi-Fi network that covers every corner with seamless roaming, adaptive path selection, and self-healing. No more searching around for a stable connection, whether you're in the basement, garage, or yard.

1. True Seamless Roaming

Deco units coordinate to create a single, unified network with the IEEE 802.11k/v/r Mesh protocol. Your phone or tablet automatically connects to the fastest Deco as you move through your home, delivering a truly seamless online experience.

2. Stays Fast

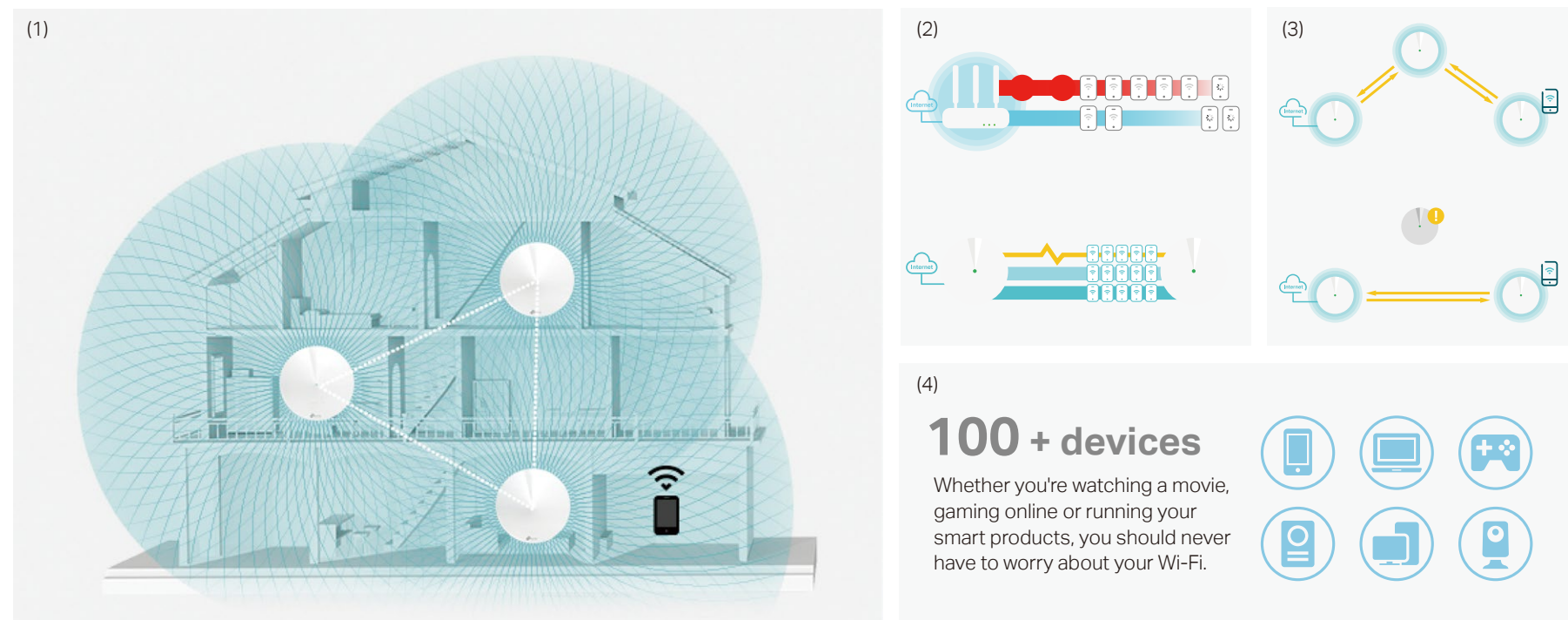
Adaptive path selection keeps your network running at top-speed by automatically choosing the fastest connection path.

3. Self-Healing

If one Deco has an issue, the system will automatically reroute data via the other Decos to ensure you always stay online.

4. No More Buffering

Tired of endless loading? With TP-Link Mesh technology, Decos provide lag-free connections for over 100 devices.



Features



Robust Parental Controls

Manage content and control when each device can access the internet

- **Profiles** – Create a profile for each family member, and manage them individually
- **Content Filter** – Four levels are available for filtering content, each catering to a specific age group
- **Time Controls** – Set daily time limits for the total time spent online and block a person's internet access between certain times
- **Pause the Internet** – Pause a family member's internet and resume it whenever you like



Easy Setup by Deco App

Easily set up Decos and find the ideal spot to place each unit

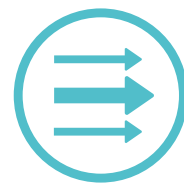
- **Auto Connection Test** – Test the internet connection of your Decos and helps to identify a suitable location for them
- **Remote Management** – Manage your Deco network from a smartphone or tablet via the app, no matter where you find yourself
- **Online Upgrade** – Keep informed of the latest firmware updates



Built-In Antivirus

Protect all connected devices in your home from viruses and malware

- **Malicious Content Filter** – Block malicious websites that are listed in real-time updated database to ensure you can surf the net in safety
- **Intrusion Prevention System** – Protect your network and applications against external attacks and eliminates vulnerabilities
- **Infected Device Quarantine** – Prevent infected devices from sending sensitive information or security threats to clients outside your network



Quality of Service

Prioritize devices and applications for faster performance when needed

- **For Applications**– Prioritize the online activity that's most important to everyone on the network
- **For Devices** – Give high priority to the devices that need the fastest internet connection



Security

Safeguard your home network with a firewall and wireless encryption

- **Encryption for Secure Network** – WPA/WPA2/WPA3 encryptions provide active protection against security threats
- **Firewall** – Protect your network devices from malicious attacks
- **Blacklist** – Add specific devices to blacklist to protect your network from unauthorized users



Work with All Deco Models

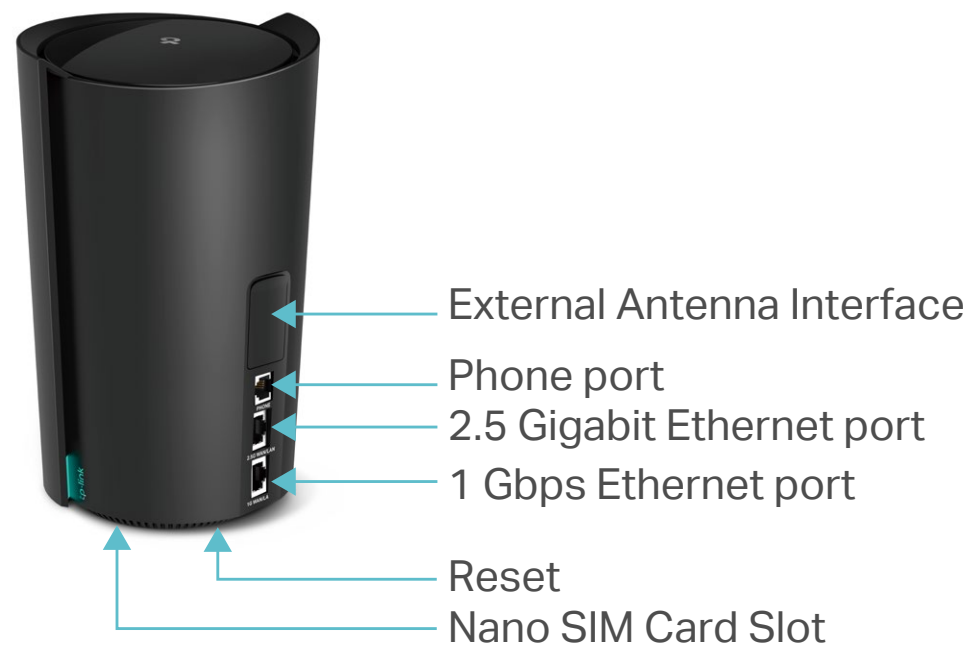
Form a Mesh network with your desired Deco models

All Deco models can work together. Just expand Mesh Wi-Fi coverage anytime by adding more Decos

Specifications

Hardware

- Ethernet Port: 1× 2.5 Gbps port + 1× gigabit port per Deco unit (WAN/LAN auto-sensing)
- Button: 1 RESET button on the underside
- Antenna: 8*LTE/5G internal antennas + 8*Wi-Fi internal antennas + LTE/5G external antenna interface
- Flash: 128MB Nand Flash
- SDRAM: 512MB*2 DDR3
- Power Consumption (with power adapter): 45W max
- Dimensions (W × D × H): 8.3 × 5.1 × 4.8 in (210 × 130 × 123 mm)
- Power Adapter Input: 100-240V~50-60Hz 1.8A
- Power Adapter Output: 12V \equiv 5A



Attention: this device may only be used indoors in all EU member states and EFTA countries.

This device complies with 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.

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[†]Maximum wireless signal rates are the physical rates derived from IEEE Standard 802.11 specifications. Actual wireless data throughput and wireless coverage, and quantity of connected devices are not guaranteed and will vary as a result of network conditions, client limitations, and environmental factors, including building materials, obstacles, volume and density of traffic, and client location.

[‡]Clients need to support 802.11k/v/r and may require additional setup. Performance may vary depending on the client device.

[§]Use of Wi-Fi 6 and other features including OFDMA, MU-MIMO, 1024-QAM, and BSS Color require clients to also support the corresponding features.

Wireless

- Network Type:
 - 5G: N41/N77/N78/N79
 - 4G: FDD-LTE B1/B3/B5/B7/B8/B18/B19/B20/B26/B28/B32
 - 4G: TDD-LTE B34/B38/B39/B40/B41/B42
 - 3G:WCDMA B1/B3/B5/B6/B8/B19
- Wireless Standards: IEEE 802.11a/n/ac/ax 5GHz, IEEE 802.11b/g/n/ax 2.4GHz
- Signal Rate: 4800 Mbps on 5 GHz + 1200 Mbps on 2.4 GHz[†]
- Mesh protocol: 802.11k/v/r
- Transmit Power: FCC: <30 dBm(2.4GHz), <30 dBm(5GHz)
CE: <20 dBm (2.4GHz), <23 dBm (5GHz)
- Wireless Security: WEP, WPA/WPA2-PSK/WPA3 encryptions

Software

- Operation Modes: 3G/4G/5G Router, Wireless Router
- WAN Type: Dynamic IP/Static IP/PPPoE/L2TP/PPTP
- DHCP: Server, Address Reservation
- Protocols: IPv4, IPv6
- Guest Network: 2.4GHz Guest Network*1, 5GHz Guest Network*1
- Features: QoS, Parental Control, OneMesh, BSS Color, OFDMA, 1024-QAM, DL/UL MU-MIMO, Optional Ethernet Backhaul, Address Reservation, Port Forwarding, TP-Link DDNS, IPTV, IPv4 Firewall Rules, LED Control, Beamforming
- Management: Local Management; Remote Management; Access Control

Others

- Certification: CE, EAC, FCC, IC, RoHS, RCM
- Smartphone/Tablet Requirements: iOS 9.0 or later, Android 4.4 or later
- Environment:
 - Operating Temperature: 0°C~40°C (32°F~104°F)
 - Storage Temperature: -40°C~70°C (-40°F~158°F)
 - Operating Humidity: 10%~90%RH
 - Storage Humidity: 5%~90%RH
- Package Contents for Deco X80-5G:
 - 1 Deco X80-5G unit
 - 1 RJ45 Ethernet cable
 - 1 Power adapter
 - 1 Quick Installation Guide