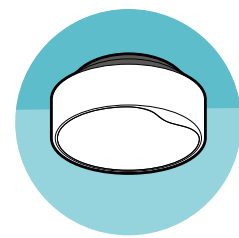


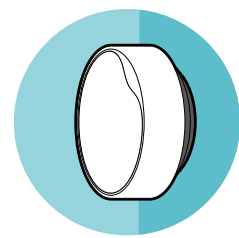
**deco**<sup>TM</sup> | AX3000 Whole Home Mesh  
Wi-Fi 6 System with PoE



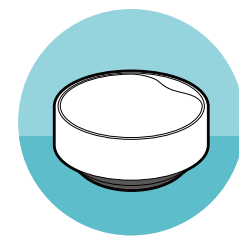
## Multi-Scenario PoE Mesh Wi-Fi



Ceiling Mount

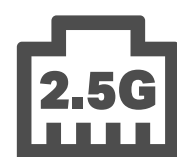


Wall Mount

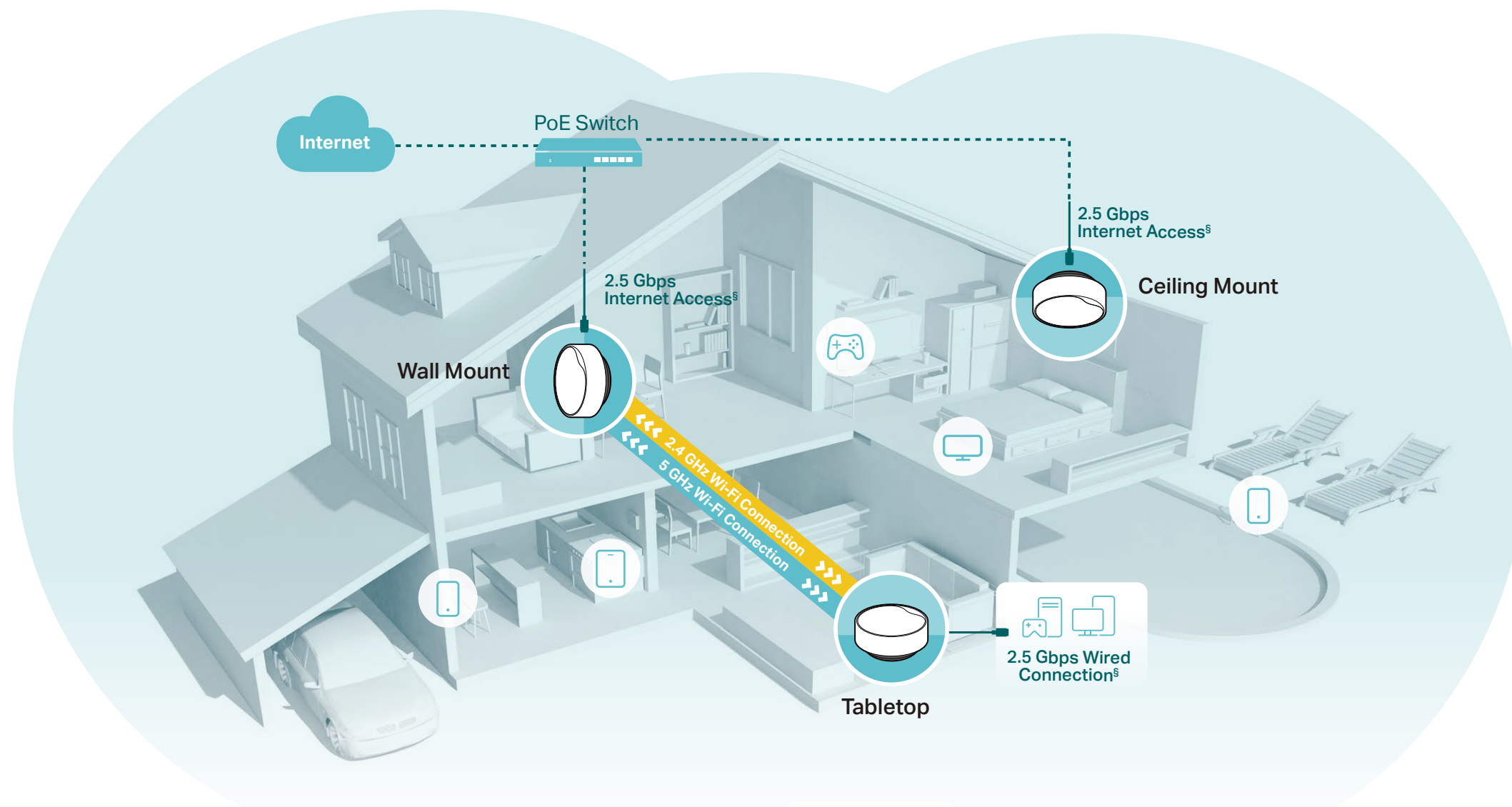


Tabletop

Deco X50-PoE



# Highlights



## Multi-Scenario PoE Mesh Wi-Fi



### Flexible in Every Way

Deco X50-PoE lets you install, power, and access the internet exactly as you need. Place it on a tabletop or install it on a ceiling or wall with our adaptive accessories.



Multiple Installation Options



PoE/DC Power Supply



Wired and Wireless Backhaul



Supports Router/AP Mode



### Seamless AI-Driven Mesh

Deco Mesh forms a unified network with built-in AI-Roaming technology creating the ideal Wi-Fi solution for your home. Walk to any room and enjoy seamless streaming at the fastest possible speeds.‡



Seamless Roaming with One Wi-Fi Name



Sophisticated Algorithms



Self-Learning Capability



Customizable Wi-Fi



### Enhanced Security – HomeShield

Manage online time and block inappropriate content to keep your family safe online with Parental Controls. Quality of Service and Network Protection further keep your home network smooth and secure.\*



Network Protection



Parental Controls



Quality of Service (QoS)



Comprehensive Reports

# Features



## Wi-Fi Speed

Faster Wi-Fi speed with stronger whole home Wi-Fi generated from Wi-Fi 6

- Superior Wireless Speed – Combines wireless speeds up to 2402 Mbps over 5 GHz, and 574 Mbps over 2.4 GHz
- More Devices Connected – Connects over 150 Devices<sup>†</sup>
- 1.0 GHz Dual-Core CPU – Helps accelerate wired and wireless transmission simultaneously to keep your connections fast and uninterrupted.



## TP-Link HomeShield

TP-Link's premium security services keep your home network safe with cutting-edge features for network and IoT protection.\*

- Network Protection – Detects cyber threats to keep your privacy and connected devices well protected
- Parental Controls – Manages online time and blocks inappropriate content to keep families healthy online
- Quality of Service (QoS) – Prioritizes your bandwidth needs to get a faster networking experience
- Comprehensive Reports – Gains full statistics and insights to help you know your home network better

Note: HomeShield includes the Free Basic Plan. Fees apply for the Pro Plan. Visit <https://www.tp-link/homeshield> for more information.



## Easy Setup by Deco App

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

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



## 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 – Protects your network devices from malicious attacks
- Deny List – Add specific devices to Deny List to protect your network from unauthorized users



## Two Modes in One

Choose the Wireless Router mode or Access Point mode for your network needs

- Wireless Router Mode – Creates an instant private wireless network
- Access Point Mode – Creates Wi-Fi access for any existing wired network



## Work with All Deco Models

Form a Mesh network with your desired Deco models

- Compatible with All Deco Models – All Deco models can work together. Just expand Mesh Wi-Fi coverage anytime by adding more Decos
- Deco Mesh Technology – Eliminates dead zones and provides uninterrupted WiFi throughout your home

# Specifications

## Hardware

- Ethernet Port: 1× 2.5 Gbps port + 1× Gigabit ports per Deco unit (WAN/LAN auto-sensing)
- Button: 1 RESET button on the underside
- Antenna: 4× antennas (internal)
- Power Consumption (with power adapter): 15.4W max (US version); 12.8W max (EU version)
- Dimensions (W × D × H): 6.1 × 6.1 × 2.7 in (154× 154 × 68.6 mm)
- Power Adapter Input: 100-240V ~ 50/60Hz 0.6A (US version); 100-240V ~ 50/60Hz 0.4A (EU version)
- Power Adapter Output: 12V  $\equiv$  1.5A (US version); 12 V  $\equiv$  1.2A (EU version)
- PoE Power Supply: IEEE 802.3at PoE



2.5 Gbps PoE Port

Attention: This device may only be used indoors in all EU member states, EFTA countries and Northern Ireland.  
Attention: This device may only be used indoors in Great Britain.

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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<sup>†</sup>Maximum wireless signal rates are the physical rates derived from IEEE Standard 802.11 specifications. Actual wireless data throughput, 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.

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

<sup>§</sup>Use of Wi-Fi 6, and other features including OFDMA, MU-MIMO, 1024-QAM, and BSS Color requires clients to also support the corresponding features. The 160 MHz bandwidth may be unavailable in the 5 GHz band in some regions/countries due to regulatory restrictions.

<sup>¶</sup>HomeShield includes the Free Basic Plan. Fees apply for the Pro Plan. Visit [tp-link.com/homeshield](https://tp-link.com/homeshield) for more information.

<sup>\*\*</sup>Wi-Fi generations represent the wireless standard IEEE 802.11 a/b/g/n/ac/ax.

<sup>§§</sup>2.5 Gbps internet speeds require compatible service plans and equipment. 2.5 Gbps and 1 Gbps ports cannot be concurrently configured as WAN ports.

## Wireless

- Wireless Standards: IEEE 802.11a/n/ac/ax 5 GHz, IEEE 802.11b/g/n/ax 2.4 GHz
- Mesh protocol: 802.11k/v/r
- Frequency: 2.4 GHz and 5 GHz
- Signal Rate: 2402 Mbps on 5 GHz + 574Mbps on 2.4 GHz<sup>†</sup>
- Transmit Power: FCC: <30 dBm (2.4 GHz), <30 dBm (5 GHz)  
CE: <20 dBm (2.4 GHz), <23 dBm (5 GHz)
- Wireless Security: WPA/WPA2-PSK/WPA3 encryptions

## Software

- Working Mode: Router, Access Point
- WAN Type: Dynamic IP/Static IP/PPPoE/L2TP/PPTP
- DHCP: Server
- Protocols: Supports IPv4 and IPv6
- Guest Network: 2.4 GHz Guest Network ×1; 5 GHz Guest Network ×1
- Features: TP-Link HomeShield, BSS Color<sup>^</sup>, OFDMA<sup>^</sup>, 1024-QAM<sup>^</sup>, MU-MIMO<sup>^</sup>, Optional Ethernet Backhaul, Assisted Setup, Address Reservation, Port Forwarding, TP-Link DDNS, IPTV, IPv6, Firewall Rules, LED Control
- Management: Local Management; Remote Management; Multi-Managers

## Others

- Certification: CE, FCC, RoHS
- Environment:  
Operating Temperature: 0°C~40°C (32 °F~104 °F)  
Storage Temperature: -40°C~60°C (-40 °F~140 °F)  
Operating Humidity: 10%~90% RH  
Storage Humidity: 5%~90% RH
- Package Contents for Deco X50-PoE (1-pack):  
1 Deco X50-PoE unit  
1 RJ45 Ethernet cable  
1 Power adapter  
Ceiling/Wall Mounting Kits  
Quick Installation Guide
- Package Contents for Deco X50-PoE (2-pack):  
2 Deco X50-PoE units  
1 RJ45 Ethernet cable  
2 Power adapters  
Ceiling/Wall Mounting Kits  
Quick Installation Guide
- Package Contents for Deco X50-PoE (3-pack):  
3 Deco X50-PoE units  
1 RJ45 Ethernet cable  
3 Power adapters  
Ceiling/Wall Mounting Kits  
Quick Installation Guide