TP-Link

Deco X20 — AX1800

AX1800 Whole Home Mesh Wi-Fi 6 System

Overview

TP-Link Deco X20 is a whole-home mesh Wi-Fi system powered by Wi-Fi 6 (802.11ax) with total speeds of up to 1,800 Mbps. Deco units work together to form one unified network with a single name and no dead zones. TP-Link Mesh technology provides true seamless roaming as you move around the home, while OFDMA and MU-MIMO allow connections for more than 150 devices at the same time.

Key Features

- **Faster Connections:** Wi-Fi 6 speeds up to 1,800 Mbps (1,201 Mbps on 5 GHz + 574 Mbps on 2.4 GHz).
- **Connect More Devices:** OFDMA and MU-MIMO quadruple capacity for 150+ simultaneous devices.
- **Seamless Whole-Home Coverage:** One unified network — your device automatically connects to the fastest Deco as you move (switching in under 0.3 s).
- **Ultra-Low Latency:** More responsive gaming and smoother video calls.
- **Expandable Coverage:** Up to 5,800 sq. ft. (~540 m²) with the 3-pack and 4,000 sq. ft. (~370 m²) with the 2-pack — add more Decos anytime.
- **Total Security:** WPA3 encryption plus HomeShield (parental controls, antivirus, and QoS).
- **Easy Setup:** The Deco app walks you through setup step by step, with Alexa voice control support.
- **Optional Ethernet Backhaul:** Wire Deco units together for higher speeds and extra stability.

Technical Specifications

Wireless	
Standards & Protocols	Wi-Fi 6 — IEEE 802.11ax/ac/n/a on 5 GHz • IEEE 802.11ax/n/b/g on 2.4 GHz
Wi-Fi Speeds	AX1800 — 5 GHz: 1201 Mbps • 2.4 GHz: 574 Mbps
Wi-Fi Range	4–6 bedroom houses (3-pack) — TP-Link Mesh with Beamforming and 2 internal antennas per unit; optional Ethernet backhaul
Wi-Fi Capacity	Dual-Band • MU-MIMO • OFDMA • 4 spatial streams • connects 150+ devices
Working Modes	Router Mode • Access Point Mode

Security	
Network Security	SPI Firewall • Access Control • HomeShield: real-time IoT protection, malicious site blocker, Intrusion Prevention System (IPS), DDoS attack prevention, home network scanner
Guest Network	1× 5 GHz guest network • 1× 2.4 GHz guest network
Wi-Fi Encryption	WPA-Personal • WPA2-Personal • WPA3-Personal

Hardware	
Ethernet Ports	2× Gigabit ports per Deco unit — WAN/LAN auto-sensing
Buttons	Reset button
Dimensions (W×D×H)	110 × 110 × 114 mm (4.33 × 4.33 × 4.49 in)

Software	
Protocols	IPv4 • IPv6
Parental Controls	HomeShield: custom profiles, content filter library, YouTube restriction & SafeSearch, bedtime/off time, pause the internet, weekly & monthly reports
WAN Types	Dynamic IP • Static IP • PPPoE • PPTP • L2TP
Quality of Service	HomeShield QoS — QoS by device
Cloud Services	OTA firmware upgrade • TP-Link ID • DDNS
More Features	Port Forwarding • UPnP • IPTV (IGMP Proxy/Snooping, Bridge, Tag VLAN) • DHCP (address reservation, client list)
Management	Deco app (iOS 9.0 or later / Android 5.0 or later)

Package Contents	
3-pack	3× Deco X20 units • 1× RJ45 Ethernet cable • 3× power adapters • Quick Installation Guide
2-pack	2× Deco X20 units • 1× RJ45 Ethernet cable • 2× power adapters • Quick Installation Guide
1-pack	1× Deco X20 unit • 1× RJ45 Ethernet cable • 1× power adapter • Quick Installation Guide

Environment & Certifications	
Operating Temperature	0°C to 40°C (32°F to 104°F)
Storage Temperature	-40°C to 60°C (-40°F to 140°F)
Humidity	Operating: 10%–90% • Storage: 5%–90% (non-condensing)
Transmission Power	CE: <20 dBm (2.4 GHz) • <23 dBm (5 GHz)
Certifications	CE • FCC • IC • RoHS • JPA • JRF • VCCI

Note: Maximum wireless rates are theoretical values derived from IEEE 802.11 specifications. Actual speed, coverage, and number of connected devices vary with network conditions, obstacles, and client capabilities. Wi-Fi 6 features (OFDMA / MU-MIMO / 1024-QAM) require compatible clients, and seamless roaming requires client support for 802.11k/v/r.