

Meet the All-New TP-Link WiFi 8 Series

ARCHER 8 ULTRA
BN19000 Tri-Band WiFi 8 Router
Archer BN800



WiFi 8

The Most Reliable WiFi Ever Built.

- Next-Generation Performance with the WiFi 8 StabilityEngine™†
- Multi-Floor Whole-Home Coverage with 18 High-Performance Antennas
- True Multi-Gig Performance: 10 Gbps Wired + 19 Gbps WiFi®a
- Effortless Control and Setup with Areal AI and One-Tap NFC

deco 8 ULTRA
BN19000 Tri-Band Whole-Home Mesh WiFi 8 System
Deco BN85



WiFi 8

Our Most Reliable Whole-Home WiFi Ever.

- Next-Generation WiFi 8 Performance†
- Up to 910 m² (3-pack) Whole-Home Coverage for 200+ Devices†
- True Multi-Gig Performance: 10 Gbps Wired + 19 Gbps WiFi®a
- AI-Powered Diagnosis, Self-Healing & Auto-Optimization

ARCHER 8 | deco 8

WiFi 8

For Life in a Connected State
- WiFi 8 (802.11bn) | Ultra-High Reliability -



What is WiFi 8?

WiFi 8 (802.11bn) is the next-gen WiFi standard focused on Ultra High Reliability. Instead of chasing peak speeds, it prioritizes steady connections, stronger coverage, and smoother roaming even in busy networks, under interference, and at the edges of coverage.



†Use of Wi-Fi 8 (802.11bn) and features require clients to also support the corresponding features.
‡Maximum coverage and connected device specs are based on test results under normal usage conditions. Actual Wi-Fi coverage and device capacity are not guaranteed and will vary due to building materials, physical obstacles, layout, network traffic, and client limitations.
§Maximum wireless signal rates are the physical rates derived from IEEE Standard 802.11 specifications. Actual wireless data throughput, wireless coverage, and 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.
¶10 Gbps internet speeds require compatible service plans and equipment. Actual internet speeds are limited by the internet bandwidth access from an internet service provider. For the 10 Gbps SFP+/RJ45 combo port, users can choose only one of them as a WAN port at a time.

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Scan for TP-Link's IFA 2026 Highlights.

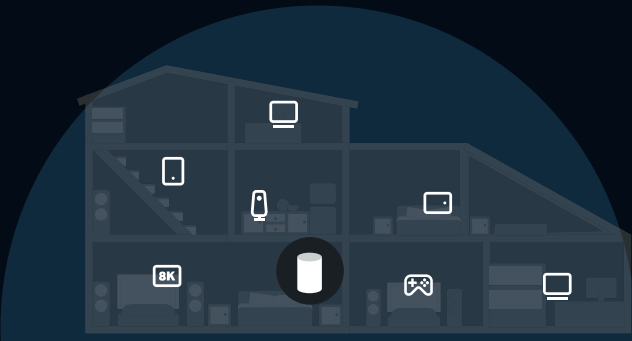
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†Figures are based on real lab data from TP-Link testing. Figures are not guaranteed as specific network conditions may vary based on specifications of the router and client devices, as well as environmental factors.

Why Do You Need WiFi 8?

Busy home slowdown

With phones, laptops, wearables, gaming consoles, and smart-home gear all online at once, today's homes are saturated with concurrent connections creating airtime congestion, lag, and uneven performance. Even with WiFi's strongest bandwidth, sheer device density still causes latency spikes and slowdowns across the network.



Lag & jitter in calls or games

Video calls, cloud gaming, and real-time collaboration are overly sensitive to even the slightest delays. Under peak usage, queues build, and jitter appear so voices clip, frames stutter, and inputs feel delayed. Even with fast WiFi speeds, momentary latency can break the experience.



Dead zone & weak uplink

Large floor plans, multi-story layouts, garages, and patios often mean dead zones at the edge of coverage, where signals fade and streams drop. Thick walls and awkward router placement leave pockets of weak or no service. Even with faster WiFi, speed near the router does not help rooms stranded in the outer reaches. With smart home devices occupying more areas in the house than ever, it is critical that a router can cover every square foot to ensure your entire home stays consistently connected.



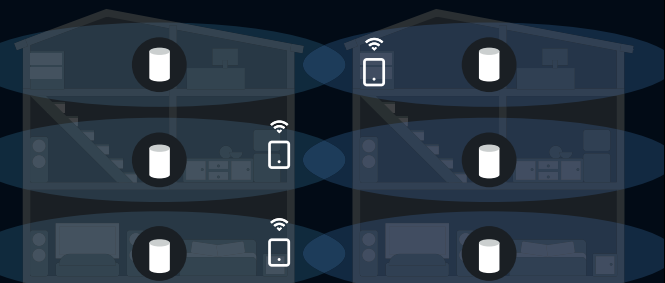
Roaming drops while moving

As you move throughout the house, devices can cling to distant access points or stumble during handoffs, causing brief disconnects and buffering. Without seamless roaming, mobility turns into micro-outages. Even with strong WiFi antennas, roaming could cause glitches that interrupt work conference calls and live streaming.



Interference & harsh layout

Unique structures and neighboring networks all interfere with signal quality, especially in dense apartments or mixed indoor-outdoor setups. Even with advanced WiFi features, real-world obstacles and neighboring networks can hurt reliability.



WiFi 8 vs WiFi 7

**Improved Consistency
Cross Your Home**
MAPC & UEQM & New MCS

**Strengthened Far Edge
Coverage and Uplink**
ELR & DRU

Reduced Drops while Moving
Seamless Roaming

No Busy Air for Steadier Speeds
NPCA & DSO

**Smoother Gaming and Streaming
with Lower Latency**
NPCA & MAPC

What's Different from the Previous Generations?

Feature	WiFi 8	WiFi 7	WiFi 6
Maximum Channel Bandwidth (MHz)	320	320	160
Max PHY rate	46 Gbps	46 Gbps	9.6 Gbps
Modulation	4096 QAM	4096 QAM	1024 QAM
Target Wake Time (TWT)	Coordinated	Restricted	Individual, broadcast
Multi AP Coordination	Yes	No	No
DSO/NPCA	Yes	No	No
DRU/ELR	Yes	No	No
IEEE Standard	11bn	11be	11ax

Notes: Values are typical maxima and feature availability can vary by device and region. Data reflects the high level evolution from Wifi 6 through WiFi 8.

6 Layers of Protection in Archer & Deco

**Enhanced Security
Across Your Home**
SAE authentication and protection against offline dictionary attacks

Network Isolation
Main, Guest, and IoT networks — zero crossover

HomeShield Defense
Security scans identify network threats in real-time plus basic parental controls

Built-In VPN Support
Enable your preferred VPN service to for secure connections on all devices

Smart Home Security
Block cameras from uploading to the cloud and isolate IoT devices that are vulnerable to threats

Intrusion Prevention
Intrusion prevention stops external attacks. (*IPS is a paid feature of HomeShield Premium)