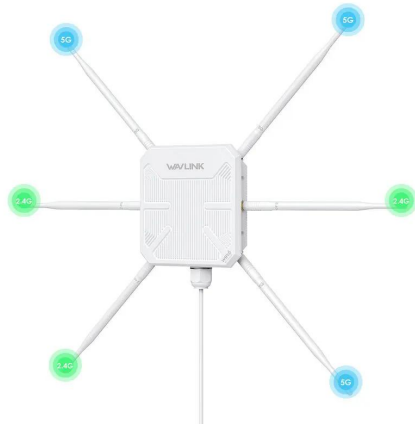


WAVLINK WL-WN588HX3 AX3000 WiFi 6 Outdoor Access Point / Range Extender/ Dual-Band AX3000 WiFi 6 Outdoor AP with 6 Antennas, PoE & IP67

SKU: WL-WN588HX3

MSRP: \$189.99



UPC 6955362058012

- Dual-band WiFi 6 (802.11ax) — 5GHz up to 2402Mbps + 2.4GHz up to 573Mbps (AX3000)
- 6x 7dBi omnidirectional antennas with MU-MIMO and beamforming for wide, stable coverage
- Supports Mesh, AP, Router, Repeater and AP+Repeater operating modes
- Active (802.3af/at) and passive PoE for single-cable outdoor installation
- Rugged IP67 metal enclosure with 15kV ESD and 6kV lightning protection; -20–50°C operating range
- Connects up to 256 devices; WPA2-PSK / WPA2/WPA3-MIX wireless security

The WAVLINK WN588HX3 is an AX3000 dual-band WiFi 6 outdoor access point engineered for permanent outdoor deployment. With six 7dBi high-gain antennas, IP67 weatherproofing, built-in signal amplifiers, and dual PoE support, it delivers up to 300 meters of 360° coverage — ideal for farmyards, RV parks, marinas, campuses, and outdoor event venues.

AX3000 WiFi 6 — Fast Enough for Everything Outdoors

Dual-band WiFi 6 (802.11ax) delivers up to 2402 Mbps on 5 GHz and 573 Mbps on 2.4 GHz — bandwidth for HD streaming, smooth video calls, and lag-free gaming, even outdoors. OFDMA and MU-MIMO handle up to 256 connected devices simultaneously without slowdown, while beamforming focuses signal directly toward each client for a stronger, more stable connection.

6×7dBi High-Gain Antennas with Signal Amplifier

Six external 7dBi omni-directional antennas — three for 5 GHz, three for 2.4 GHz — form a cross-matrix array for full 360° coverage. Built-in high-power amplifiers extend the 5 GHz band up to 300 meters in open line of sight, maintaining stable throughput from the base of the mount to the edge of the property.

IP67 Weatherproof — Built to Stay Outside

The fully sealed IP67-rated enclosure withstands heavy rain, dust, extreme cold, and continuous moisture. 15KV ESD protection guards against electrostatic discharge, and an integrated ground wire terminal adds lightning protection when connected to a proper ground. The included PoE injector and power adapter are not waterproof and should be installed indoors.

Power over Ethernet — One Cable Does It All

No outdoor power outlet needed. The WN588HX3 supports both Active PoE (802.3at/af) for plug-and-play use with

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standard PoE switches and Passive PoE (48V, injector included) for cost-effective long cable runs. A single CAT5E or better Ethernet cable (up to 100 meters) carries both gigabit data and power. Mounting bracket, cable ties, and screws are included for pole or wall installation.

Everything Mesh — Expand Without Limits

One unit covers up to 300 meters; multiple units link wirelessly with one click via WAVLINK Everything Mesh and share a single SSID, so users roam the property without reconnecting. Mesh-compatible with the WN586X3, WN583AX3, and WN573HX3. Six operation modes — Router, AP, Repeater, Mesh Router, Mesh Extender, and Fat/Fit AP — adapt to any topology, and large-scale deployments can be centrally managed via a WAVLINK AC controller.

WAVLINK
see the world

Wi-Fi 6 AX3000 Outdoor Solution

Dual-band Wireless Access Point **WN588HX3**

- AX 3000** Highpower
- WiFi 6** AP/ROUTER
- POE** control
- Weatherproof**

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Wi-Fi 6 AX3000 Outdoor Solution

Dual-band Wireless Access Point **WN588HX3**

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WiFi 6

WiFi 6



AX3000
Dual Band Speed



6*7dBi
Antennas



Lightning
Protection



Mesh/AP
Router/Repeater



IP67
Waterproof



Farm



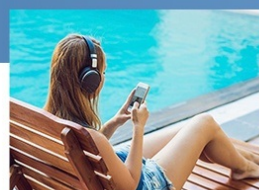
Yard



Park



Outdoor Cafe



Swimming Pool

AP/Router Mode

Modem/Router



max 100m



AP/Router



Repeater Mode

Router



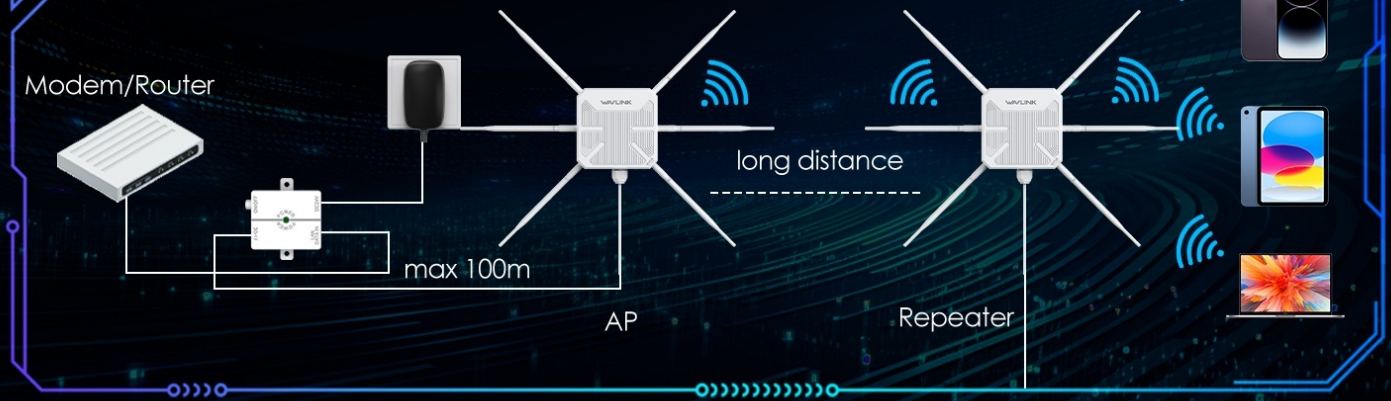
max 100m



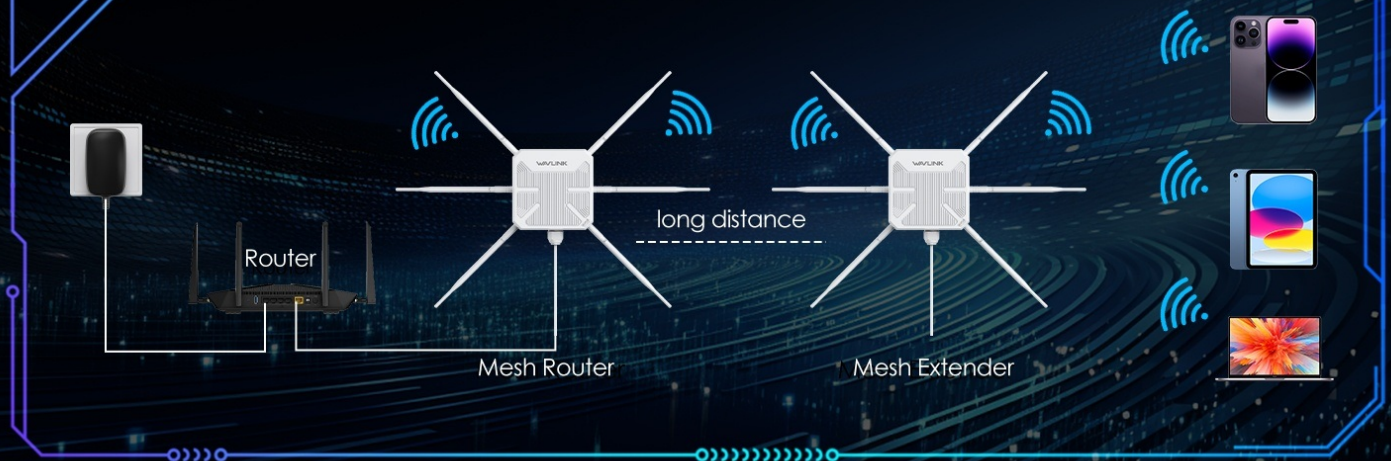
Repeater



AP+Repeater Mode



Mesh Mode



5GHz
2402Mbps

2.4GHz
573Mbps



Access More Devices

Connect up to **256** devices simultaneously, ideal for large spaces such as factories, communities, streets, and more



Professional Outdoor Wi-Fi Solution



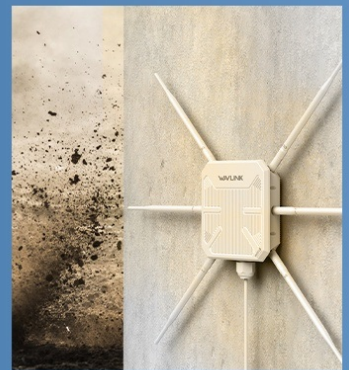
-10°C~70°C (14°F~158°F)



15KV ESD & 6KV
Lightning Protection



IP67-rated Waterproof
Enclosure



No Ingress of Dust



Worry-Free WiFi Coverage

Enhanced by built-in high-power amplifiers and 6x7dBi omni-directional antennas to extend outdoor signal coverage up to **300m(984ft)**.

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Technical Specifications

Antennas	6×7dBi omni-directional (3×5GHz + 3×2.4GHz)
Coverage	Up to 300m outdoors (line of sight)
Dimensions	17 × 17.3 × 5.1 cm / 552g
Ethernet Port	1× Gigabit WAN/LAN
Max Clients	Up to 256 devices
Operation Modes	Router / AP / Repeater / Mesh Router / Mesh Extender / Fat AP / Fit AP
Power	802.3at/af Active PoE or 48V Passive PoE (injector included)
Protection	15KV ESD
Security	WPA2-PSK / WPA2/WPA3-MIX
Speed	5GHz: 2402Mbps + 2.4GHz: 573Mbps = up to 3000Mbps
Waterproof	IP67
WiFi Standard	802.11ax (WiFi 6), backward compatible with 802.11a/b/g/n/ac

Warranty

1 Year Warranty

Support

User Manual

[USER MANUAL AX3000](#)

Spec Sheet