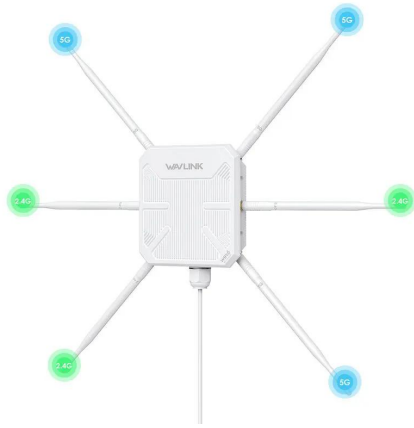


## WAVLINK WL-WN588HX3 AX3000 WiFi 6 Outdoor Access Point / Range Extender/ Dual-Band AX3000 WiFi 6 Outdoor AP with 6 Antennas, PoE & IP67

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**

**WAVLINK**  
see the world

### 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



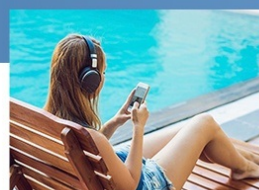
Yard



Park



Outdoor Cafe



Swimming Pool

## AP/Router Mode

Modem/Router



max 100m



AP/Router



## Repeater Mode

Router



max 100m

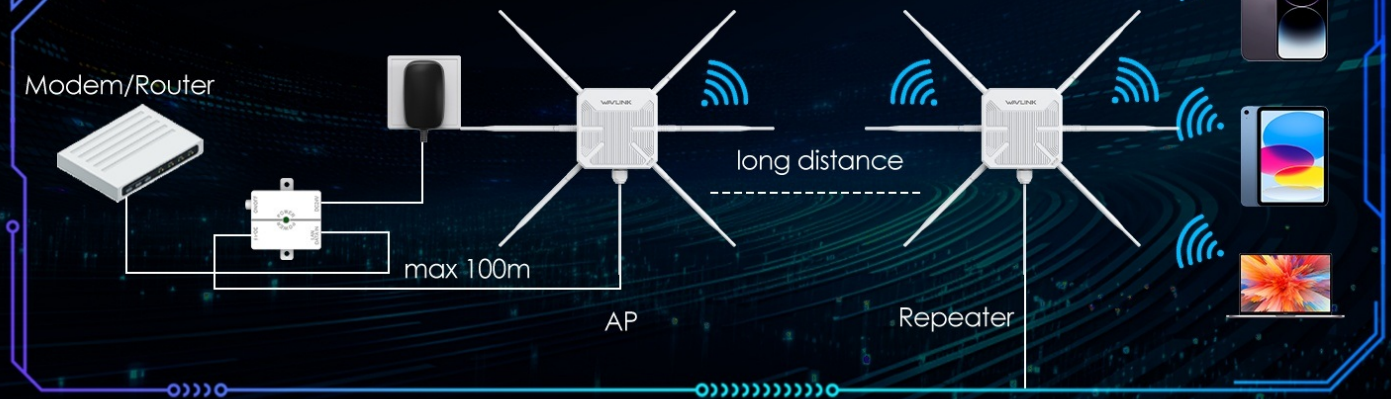


Repeater

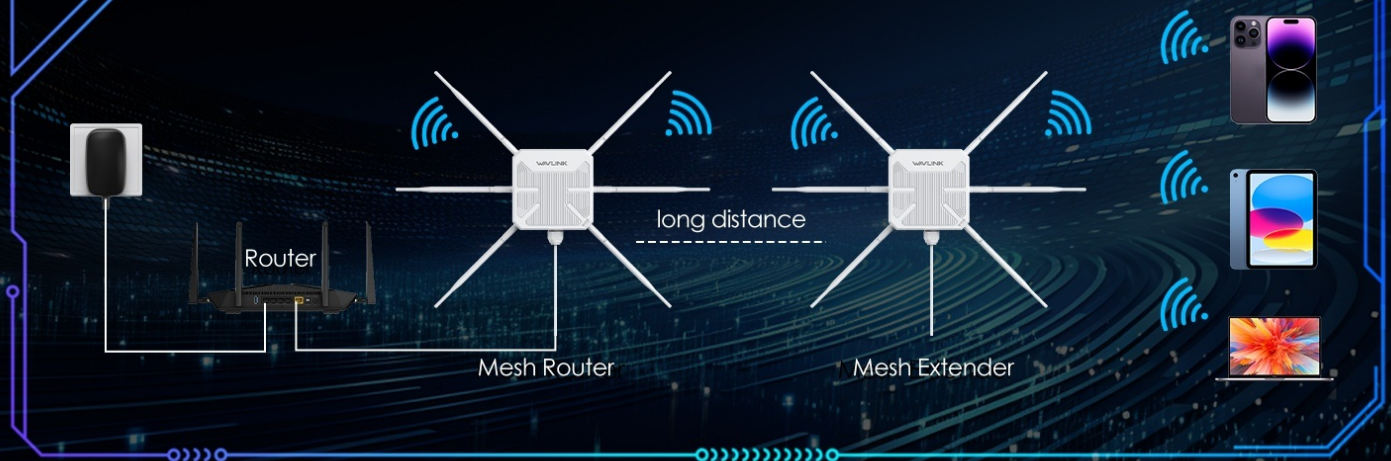




## AP+Repeater Mode



## 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



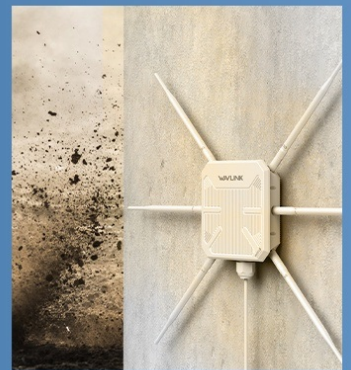
-10°C~70°C (14°F~158°F)



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](#)