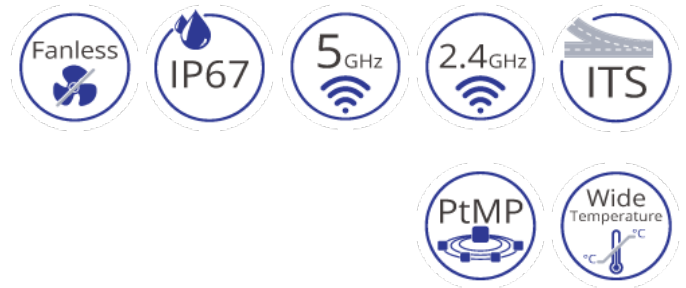


# EW75000-08

Hardened IP67 Outdoor Wireless Access Point



## Overview

The eWAV series is a family of hardened IP67 outdoor wireless access points (WAP) providing high-speed wireless connectivity for harsh and demanding environments. Comprised of high-power, long-range single and dual-band IEEE 802.11ac MIMO wireless radios with gigabit IEEE 802.3at PoE connectivity, the series is hardened against extreme temperatures and water ingress.

eWAV delivers the power and range (up to 20 miles) to wirelessly connect remote networks, or extend existing networks in an efficient and cost-effective way. It supports 5GHz 802.11a/n/ac for long-distance Point-to-Point and Point-to-Multi-Point connections with up to 867Mbps transmission speeds.

EtherWAN — "When Connectivity is Crucial."

## Highlights

### + High Bandwidth Wireless Connectivity

- Design for Point-to-Point and Point-to-Multipoint wireless backhaul applications
- IEEE 802.11a/n/ac providing high throughput data transmission on 5GHz up to 866Mbps
- IEEE 802.11b/g/n providing local access on 2.4GHz up to 300Mbps
- 2 x 2 MIMO antennas with high gains

### + Hardened Grade with IP67 Protection

- Wide operating temperature range for extreme environments
- Fanless and ruggedized outdoor IP67 enclosure

### + Comprehensive and Advanced Software Features

- Static routing, RIP v1/v2 and OSPF v2
- Built in Stateful Firewall and RADIUS for security control
- RF strength LEDs and Bandwidth Tester to ease installation effort

## Features

### + Interface

Web Browser  
SNMP v1/v2/v3

### + Management

Firmware and configuration upgrade and backup via Web Browser  
Supports DHCP Server/Client/Relay  
DNS cache and Web Proxy  
System health monitoring including temperature and voltage  
Local system log, e-mail and remote log service  
SNTP Client  
Useful tools such as Bandwidth Test, E-mail, Ping, Traceroute, Packet Sniffer and Traffic Generator

### + Wireless

Encryption: WPA, WPA2, WEP, AES  
Dynamic Frequency selection  
Proprietary Nstreme and Nv2 protocols for long distance transmission

### + Routing

Static routing, RIP v1/v2 and OSPF v2  
Bidirectional Forwarding Detection  
Prefix List to filter and control the routing table

### + Security

RADIUS client  
Powerful Firewall  
Stateful packet inspection  
Layer-7 protocol detection  
Peer-to-peer protocols filtering  
Traffic classification by:  
1. Source MAC address  
2. IP addresses (Network or List) and address types (Broadcast, Local, Multicast, Unicast)  
3. Port or port range  
4. IP protocols  
5. Protocol options (ICMP type and code fields, TCP flags, IP options and MSS)  
6. Interface the packet arrived from or left through  
7. Internal flow and connection marks  
8. DSCP byte  
9. Packet content  
10. Rate at which packets arrive and sequence numbers  
11. Packet size  
12. Packet arrival time

# Specifications

## + Technology

### Standards

IEEE 802.3 10BASE-T  
 IEEE 802.3u 100BASE-TX  
 IEEE 802.3ab 1000BASE-T  
 IEEE 802.11a/n/ac Wireless LAN

### Performance

Wireless transmission rate 5GHz: 11a: 108Mbps, 11n: 300Mbps, 11ac: 866Mbps  
 2.4GHz: 11b: 22Mbps, 11g: 108Mbps, 11n: 300Mbps  
 Ethernet data rate  
 Up to 540Mbps (LAN to wireless 11ac)

### Wireless

RF channels  
 Non-overlapping  
 Frequency range  
 5GHz: 5150-5250MHz and 5725-5850MHz  
 2.4GHz: 2412-2462MHz  
 Channel width  
 5GHz: 10MHz, 20MHz, 40MHz, 80MHz  
 2.4GHz: 5MHz, 10MHz, 20MHz, 40MHz  
 Data security  
 256-bit AES-CCM

## + Physical

### Casing

Aluminum Case  
 IP67

### Dimensions

EW75200-0804: 270 x 765 x 76mm (W x H x D)  
 (10.63" x 30.12" x 3")  
 EW75200-1304, EW75000-08: 270 x 565 x 76mm  
 (10.63" x 22.25" x 3")

### Weight

EW75000-08: 3.5lbs.  
 EW75200-0804: 4.5lbs.  
 EW75200-1304: 4.2lbs.

### Installation Type

Wall or Pole Mounting

## + Environmental

### Operating Temperature

-40 to 75°C (-40 to 167°F)

### Storage Temperature

-45 to 85°C (-49 to 185°F)

### Ambient Relative Humidity

5% to 95% (non-condensing)

## + Regulatory

### ISO

Manufactured in an ISO 9001 facility

### EMI

FCC Part 15B Class A  
 FCC Part 15C

### Environmental Test Compliance

IEC 60068-2-6 Fc (Vibration Resistance)  
 FED STD 101C Method 5007.1 (Free fall w/package)

## + Power

### Input

48VDC PoE Including Passive PoE, Telecom PoE,  
 802.3af and 802.3at

### Power Consumption

13W Max.

## + Interface

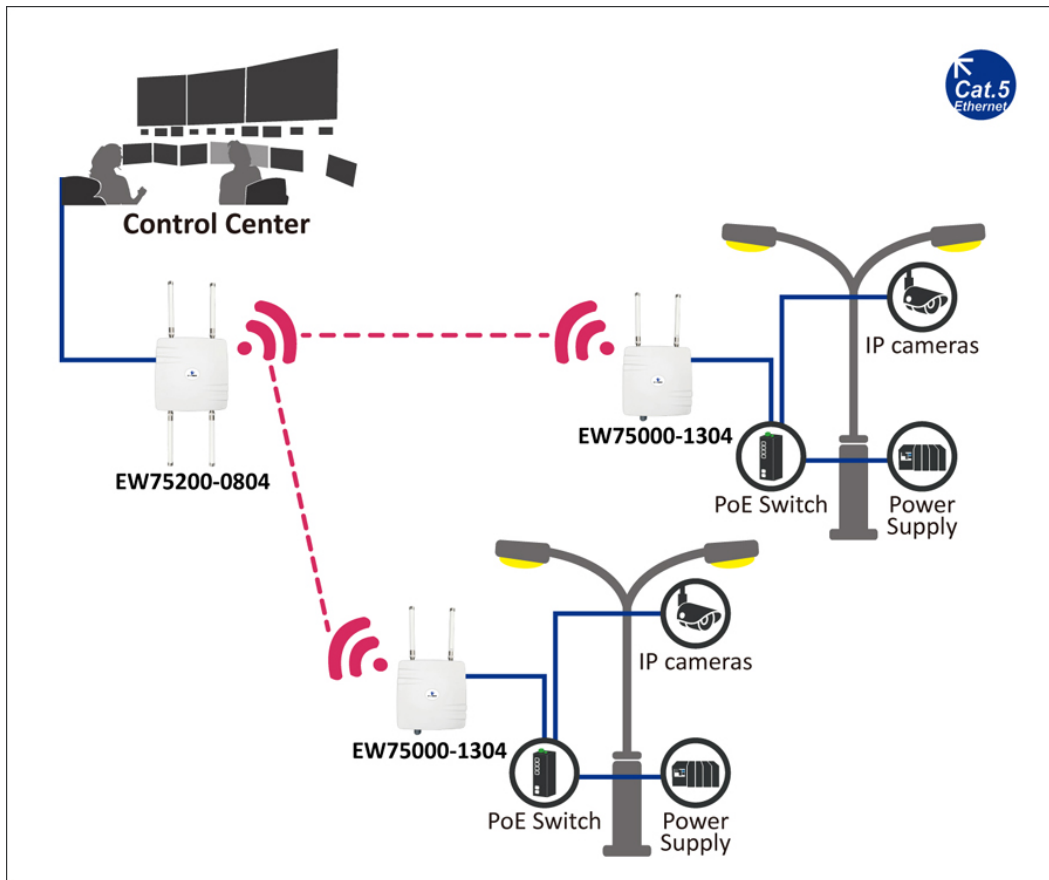
### Ethernet Port

10/100/1000BASE-TX PoE

### LED Indicators



## Application



## Ordering Info

### + Model

<b>EW75000-08</b>	Hardened IP67 outdoor wireless access point with 5GHz/8dBi Omni antenna
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### + Accessories

<b>EW-JPole18</b>	18" Wall Mount J-Pole
<b>Cable 25</b>	25' Shielded Twisted Pair CAT 6 Cable with UV Resistant Coating
<b>Cable 50</b>	50' Shielded Twisted Pair CAT 6 Cable with UV Resistant Coating
<b>Cable 150</b>	150' Shielded Twisted Pair CAT 6 Cable with UV Resistant Coating
<b>Cable 300</b>	330' Shielded Twisted Pair CAT 6 Cable with UV Resistant Coating

