

# EW75000-13MP

Hardened IP67 Outdoor Wireless Bridge/Access Point



## Overview

The eWAV EW75000-13MP is a hardened IP67 outdoor wireless Multi-Point Bridge/Access Point unit providing high speed wireless connectivity remotely. Comprised of high-power IEEE 802.11ac MIMO wireless radios with gigabit IEEE 802.3at PoE connectivity, the EW75000-13MP is hardened against extreme temperatures and water ingress for harsh and demanding environments and is designed to accept Multiple connections from the EW75000-13 Bridge Subscriber Unit

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 data transmission. Maximum transmission speeds are up to 866Mbps on the 5GHz band.

EtherWAN — "When Connectivity is Crucial."

## Highlights

### + High Bandwidth Wireless Connectivity

Designed for Point-to-Multi-Point Wireless Remote Connectivity  
IEEE 802.11a/n/ac providing high throughput data transmission on 5GHz up to 866Mbps  
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, RIPv1 & v2 and OSPFv2  
Built in Stateful Firewall and RADIUS for security control  
RF strength LEDs and Bandwidth Tester to ease installation effort

## Software 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, RIPv1 & v2 and OSPFv2

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

## Hardware Specifications

### + Mechanical

#### Casing

UV Protected Polystyrene case with internal metal enclosure

IP67

#### Dimensions (W x H x D)

270 x 301.7 x 76mm (10.63" x 11.88" x 3")

#### Weight

3.5lbs

#### Installation

Pole/Wall Mounting

### + 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

Ethernet data rate:

Up to 540Mbps (LAN to wireless 11ac)

#### Wireless

RF channels: Non-overlapping

Frequency range:

5GHz: 5150-5250MHz and 5725-5850MHz

Channel width:

5GHz: 10MHz, 20MHz, 40MHz, 80MHz

Data security: 256-bit AES-CCM

Transmit power and receive sensitivity 5GHz

	Transmit power (dBm)	Receive Sensitivity
6MBit/s	31	-96

54MBit/s	27	-81
MCS0	30	-96
MCS7	27	-77
MCS9	22	-72

**+ Interface**

**Ethernet Port**  
10/100/1000BASE-TX PoE

#### LED Indicators



## + Environment

**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 Approvals

**ISO**  
Manufactured in an ISO 9001 facility

**EMI**  
FCC Part 15B Class A  
FCC Part 15C

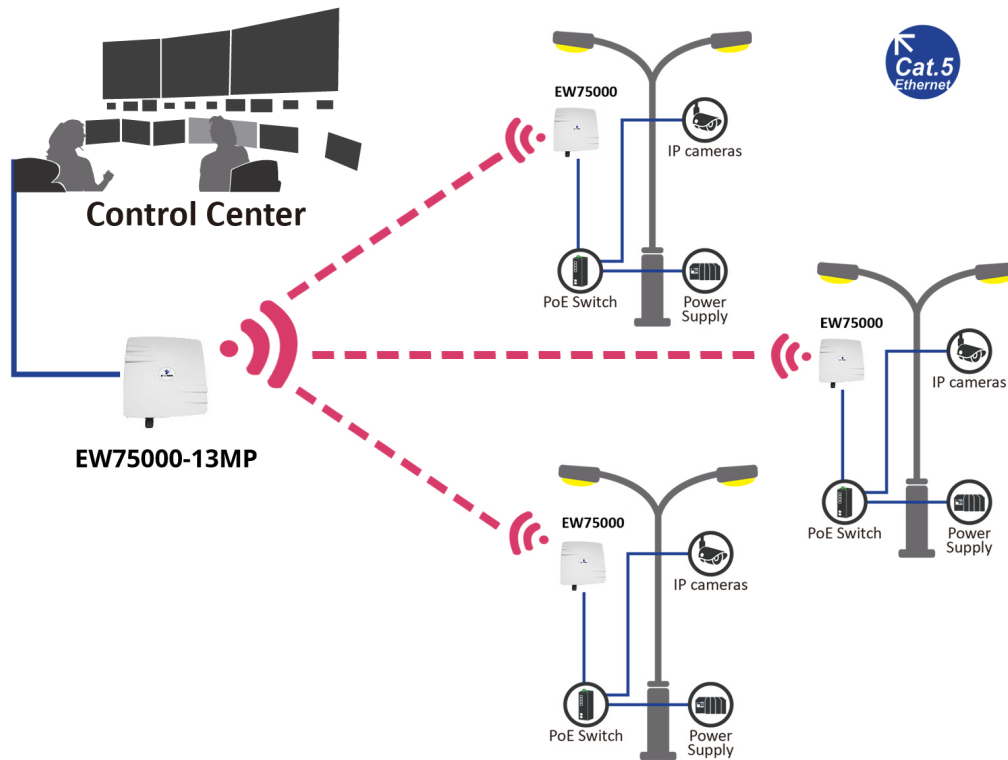
**Environmental Test Compliance**  
IEC 60068-2-6 Fc (Vibration Resistance)  
FED STD 101C Method 5007.1 (Free fall w/package)

## + Power

**Input**  
PoE, 802.3af/at/bt PSE

**Power Consumption**  
13W Max.

## Dimensions



## Ordering Info

### + Model

<b>EW75000-13MP</b>	Hardened IP67 outdoor wireless bridge/access point unit with 5GHz/19dBi Panel 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

