

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

+ 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

+ Routing

Static routing, RIPv1 & v2 and OSPFv2

Bidirectional Forwarding Detection

Prefix List to filter and control the routing table

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

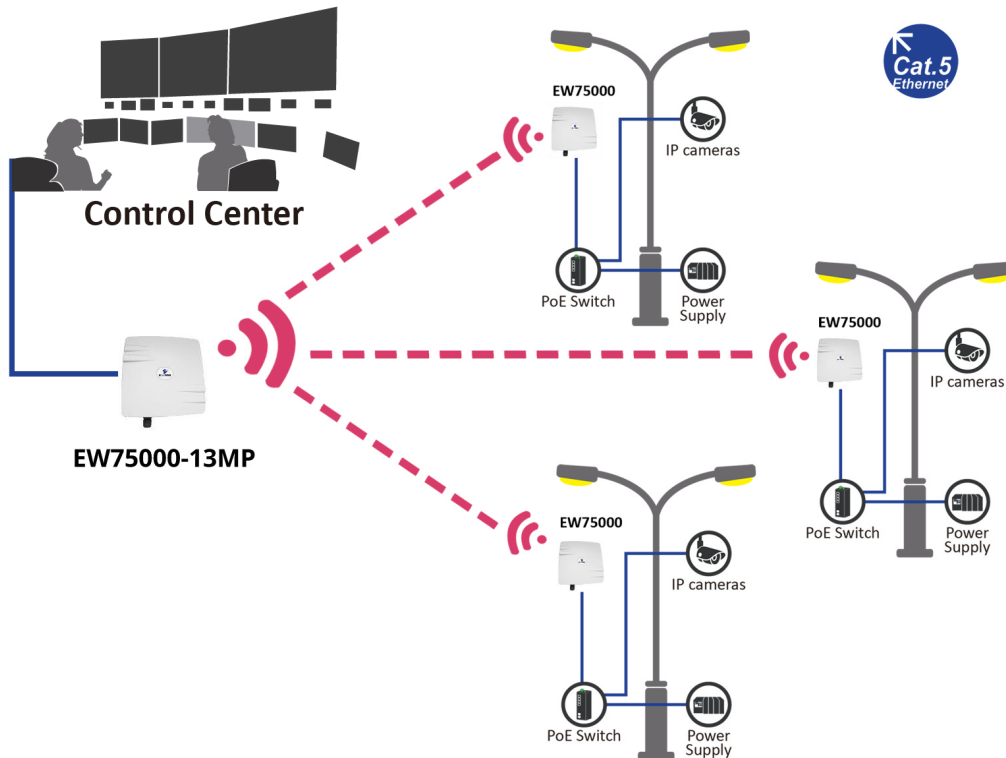
Input

PoE, 802.3af/at/bt PSE

Power Consumption

13W Max.

Application



Ordering Info

+ Model

EW7500-13MP	Hardened IP67 outdoor wireless bridge/access point unit with 5GHz/19dBi Panel antenna
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+ Accessories

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

