EW75000-13

Hardened IP67 Outdoor Wireless Bridge Subscriber Unit

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 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

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

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
- Ethernet data rate:
  - Up to 540Mbps (LAN to wireless 11ac)

Wireless

- RF channels: 2 Non-overlapping
- Frequency range: 5GHz: 5150-5250MHz and 5725-5850MHz
- Channel width: 5GHz: 10MHz, 20MHz, 40MHz, 80MHz
- Data security: 256-bit AES-CCM

➕ Mechanical

Casing

- UV Protected Polystyrene case with internal metal enclosure
- IP67

Dimensions (W x H x D)

- EW75000-13: 270 x 301.7 x 76mm (10.63"x 11.88" x 3")

Weight

- EW75000-13: 3.5lbs

Installation

- Pole/Wall Mounting

➕ 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

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➕ 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

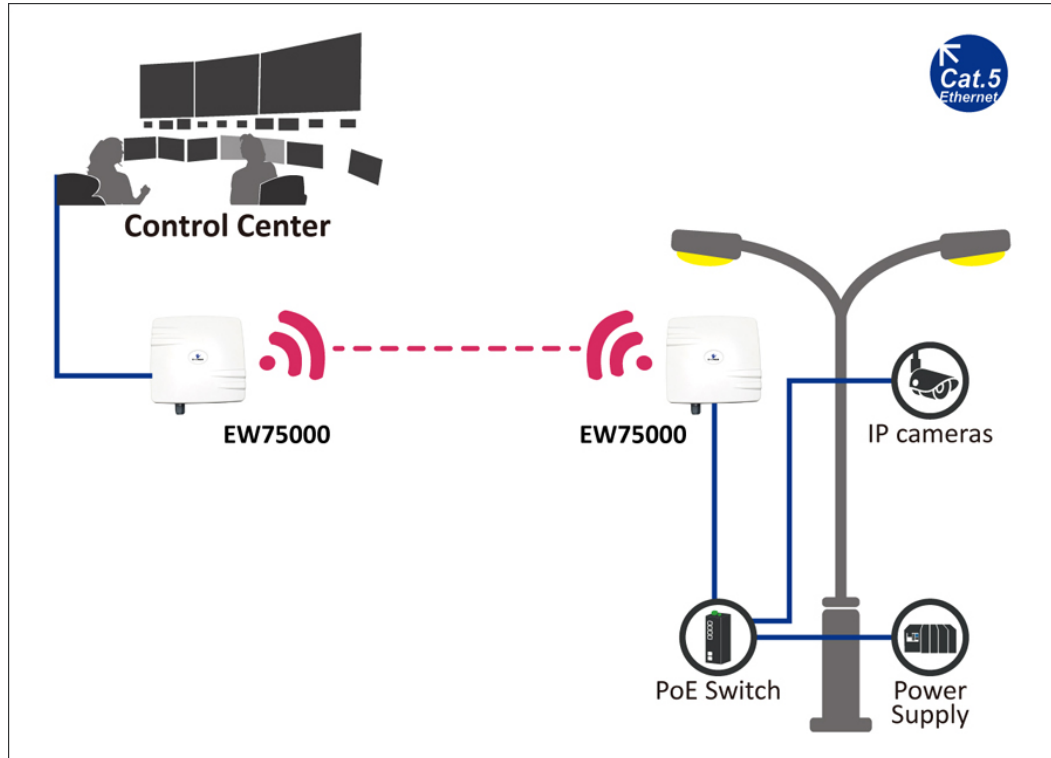- Manufactured in an ISO 9001 facility

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)

Application

Ordering Info

➕ Model

EW75000-13 - [Buy Now](#)	Hardened IP67 outdoor wireless bridge subscriber unit with 5GHz/19dBi Panel antenna

➕ 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