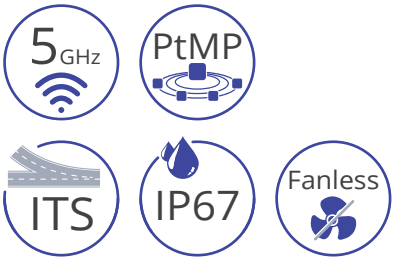
EW75000-13MP

Hardened IP67 Outdoor Wireless Bridge/Access Point



Product 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

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.

Ordering Information

Model	
EW75000-13MP	Hardened IP67 outdoor wireless bridge/access point unit with 5GHz/19dBi Panel antenna

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

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-overlappingv 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

Power

Input	PoE, 802.3af/at/bt PSE
Power Consumption	13W Max.

Physical

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	1.59 kg (3.5 lbs.)
Installation Type	Pole/Wall Mounting

Interface

Ethernet Port	10/100/1000BASE-TX PoE

LED Indicators

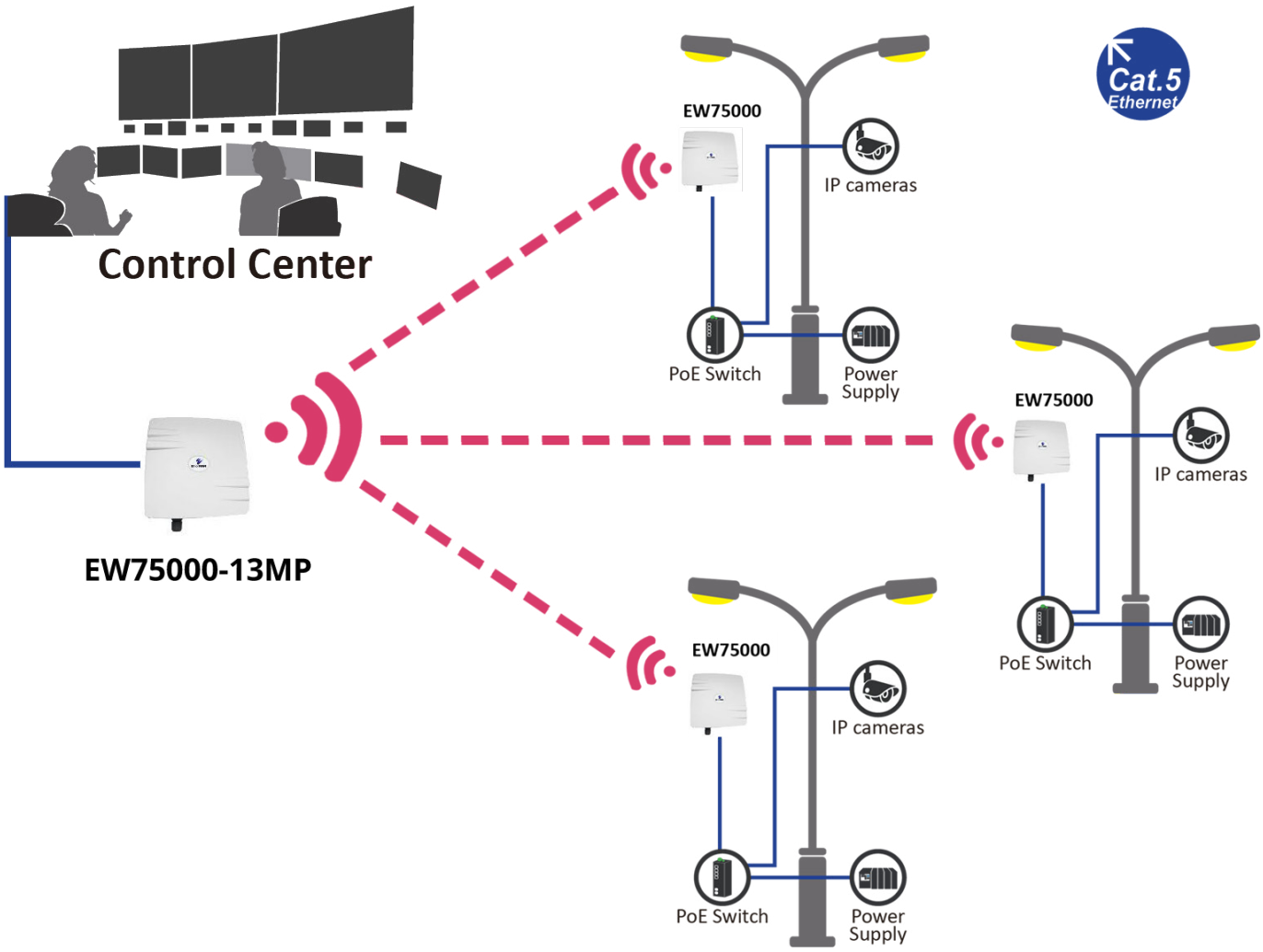
Environmental

Operating Temp.	-40 to 75°C (-40 to 167°F)
Storage Temp.	-40 to 85°C (-40 to 185°F)
Ambient Relative Humidity	5% to 95% (non-condensing)
Wind Load	132N @200km/h/h
Wind Survivability	200km/h

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)

Application Diagram



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