

ECW100

In-Wall Access Point



Product Overview

The ECW100 is a concurrent dual-band 802.11ac in-wall access point designed specifically for enhancing your traditional Ethernet/telephone outlets with Wi-Fi capabilities. It provides a Gigabit LAN port for your network devices and a pass-through telephone port for supporting telephone, modems and ADSL connections. Featuring two 2x2 MIMO radios, the ECW100 can simultaneously support up to 300 and 867 Mbps data rates in the 2.4 and 5 GHz bands respectively.

When the ECW100 is deployed and centrally managed by an Edgecore EWS Controller, additional value-added applications such as bandwidth control, user authentication, and captive portals can be used to provide an ideal solution for all types of businesses.

Highlights

Wi-Fi

- Concurrent dual-band 2.4 and 5 GHz
- 2x2 MIMO supporting up to 1.2 Gbps data rate
- Support up to 16 ESSIDs.
- Enterprise-grade wireless security

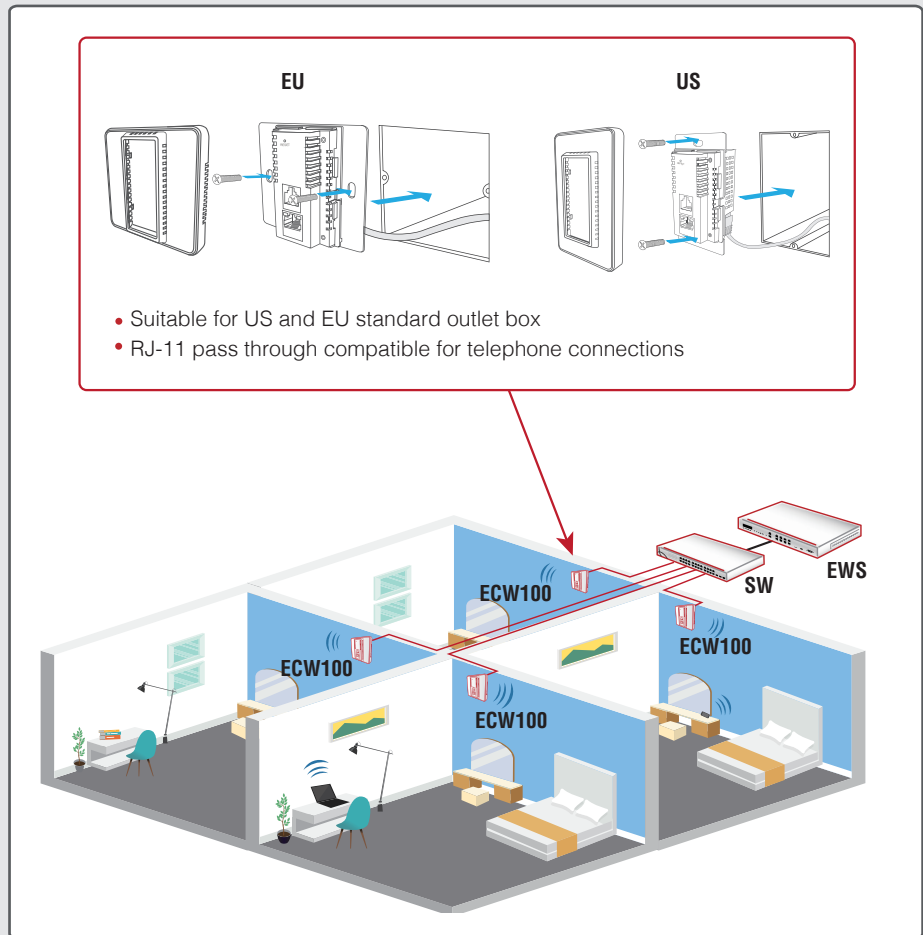
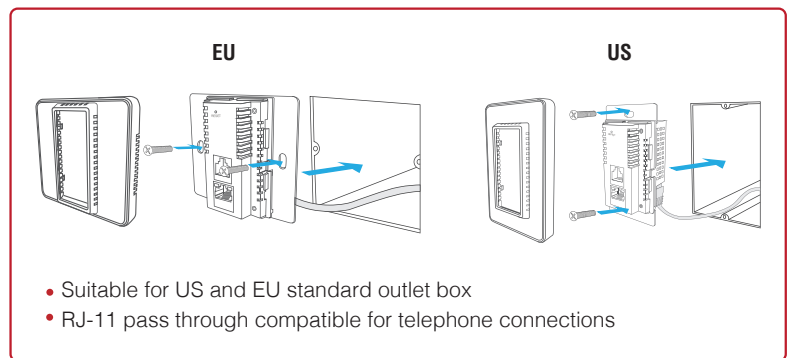
Physical

- Simple installation and easy per-room deployment
- In-wall design for US or EU standard outlets
- 802.3af PoE uplink port
- RJ-11 pass-through port

Management with controller

- Captive portal and guest provisioning
- Fast Layer 2/Layer 3 roaming
- User-based access management
 - Bandwidth control
 - Firewall policies
 - Routing policies
- Wi-Fi monetization

In-Wall Access Point



Features

Physical

- Power:
- PoE: 802.3af compliant (PoE injector optional)
- Dimensions:
- US: 4.0 cm (L) x 7.0 cm (W) x 11.5 cm (H)
 - EU: 4.0 cm (L) x 8.5 cm (W) x 8.5 cm (H)
- Weight: 125 g (0.275 lbs)
- Interfaces:
- Uplink: 1 x 10/100/1000BASE-T Ethernet, Auto MDIX, RJ-45 with 802.3af PoE
 - LAN: 1 x 10/100/1000BASE-T Ethernet, Auto MDIX, RJ-45
 - Bypass: 1 x RJ-11 (front) and 1 x RJ-11 (back)
- LED Indicators:
- Power
 - 1 x LAN Status (100 Mbps)
 - 1 x LAN Status (1 Gbps)
- Buttons: Reset/Restart
- Environmental Conditions:
- Operating Temperature: 0°C (32°F) to 40°C (104°F)
 - Operating Humidity: 0% to 90% non-condensing
- Power Consumption: 8 W max.
- Antenna:
- Type: 2 x built-in (2 x 2.4 GHz, 2 x 5 GHz)
 - Gain: 2 dBi (2.4 GHz), 3.5 dBi (5 GHz)
- Mounting: In-wall (mounting plate included)
 Tamperproof mounting kit lock

Wi-Fi

- Standards:
- 802.11a/b/g/n/ac
 - Concurrent dual-band 2.4 GHz and 5 GHz
- Supported Data Rates:
- 802.11b: 1, 2, 5.5, 11 Mbps
 - 802.11a/g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps
 - 802.11n: 6.5 – 144 Mbps (20 MHz)
 - 802.11n: 13.5 – 300 Mbps (40 MHz)
 - 802.11ac: 6.5 – 173.4 Mbps (20 MHz)
 - 802.11ac: 13.5 – 400 Mbps (40 MHz)
 - 802.11ac: 29.3 – 866.6 Mbps (80 MHz)
- Radio Chains: 2 x 2
- Spatial Streams: 2
- RF Output Power*1:
- 2.4 GHz: Up to 10 dBm*2
 - 5 GHz: Up to 10 dBm*2
- Channel Bandwidths: 20 MHz, 40 MHz, 80 MHz
- Frequency Band: 2.412 – 2.472 GHz, 5.180 – 5.825 GHz
- Operating Channels:
- 2.4 GHz: 1 – 11 (US), 1 – 13 (Europe), 1 – 13 (Japan)
 - 5 GHz*3: 36 – 165 (US), 36 – 140 (Europe), 36 – 140 (Japan)
- ESSIDs: Up to 8 per radio (16 total)

Performance

- Physical Data Rate:
- Up to 300 Mbps (2.4 GHz)
 - Up to 867 Mbps (5 GHz)
- Concurrent Users: Up to 200 (100 on 2.4 GHz, 100 on 5 GHz)

Quality of Service

- Wireless QoS (802.11e/WMM)
- DSCP (802.1p)
- Multicast-to-unicast conversion
- Optimal client filtering

Management

- Deployment:
- Standalone
 - Tunneled management by Edgecore EWS Controller
 - IPv4 compatible
- Configuration:
- Web user interface (HTTP/HTTPS)
 - SNMP v1, v2c, v3

Security

- Wireless Security:
- WEP
 - WPA/WPA2 Mixed (TKIP/AES Mixed)
 - WPA2-Personal (AES)
 - WPA2-Enterprise (AES)
- VLAN tagging (802.1Q)
 Station isolation
 DHCP snooping
 Layer-2 firewall

Mobility/Roaming

- 802.1X preauthentication
- Layer 2/Layer 3 fast roaming

Receive Sensitivity

Operating Mode	Data Rate	Receive Sensitivity (dBm)
802.11b	1 Mbps	-91
	11 Mbps	-84
802.11a	6 Mbps	-86
	54 Mbps	-69
802.11g	6 Mbps	-86
	54 Mbps	-69
802.11n (HT20)	MCS0	-85
	MCS7	-68
	MCS8	-85
	MCS15	-66
802.11n (HT40)	MCS0	-84
	MCS7	-65
	MCS8	-84
	MCS15	-63
802.11ac (VHT20)	MCS0	-85
	MCS8	-65
802.11ac (VHT40)	MCS0	-84
	MCS9	-60
802.11ac (VHT80)	MCS0	-80
	MCS9	-54

*1: RF output power does not include antenna gain

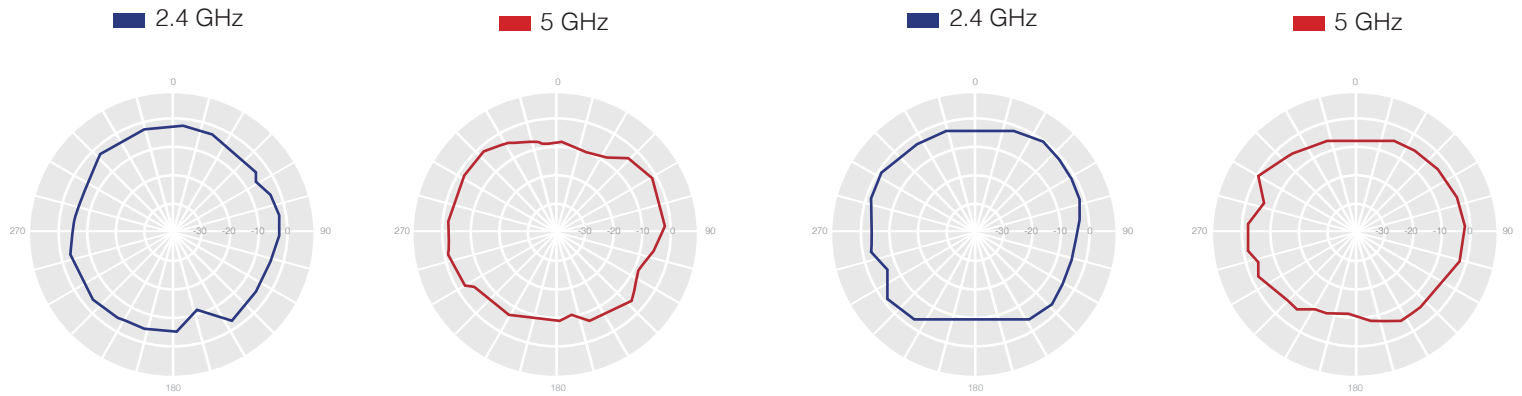
*2: Maximum power is limited by local regulatory requirements

*3: Some channels are restricted by local regulatory requirements

Signal Coverage Patterns

H-plane (Horizontal)

E-plane (Vertical)



Warranty

Please check www.edge-core.com for the warranty terms in your country.

For More Information

To find out more about Edgecore Networks Corporation products and solutions, visit www.edge-core.com.

About Edgecore Networks Corporation

Edgecore Networks Corporation is in the business of providing innovative network solutions. In the service provider network, in the data center or in the cloud, Edgecore Networks Corporation delivers the software and systems that transform the way the world connects. Edgecore Networks Corporation serves customers and partners worldwide. Additional information can be found at www.edge-core.com.

Edgecore Networks Corporation is a subsidiary of Accton Technology Corporation, the leading network ODM company. The Edgecore data center switches are developed and manufactured by Accton.

To purchase Edgecore Networks solutions, please contact your Edgecore Networks Corporation representatives at +886-3-563-8888 (HQ) or +1 (949)-336-6801 or authorized resellers.

© Copyright 2018 Edgecore Networks Corporation. The information contained herein is subject to change without notice. This document is for informational purposes only and does not set forth any warranty, expressed or implied, concerning any equipment, equipment feature, or service offered by Edgecore Networks Corporation. Edgecore Networks Corporation shall not be liable for technical or editorial errors or omissions contained herein.