ECW5211-L
Indoor Access Point
Concurrent Dual-Band 11ac Wave 2 indoor AP

Product Overview

The ECW5211-L is an enterprise-grade, concurrent dual-band 802.11ac Wave 2 indoor access point, designed specifically for high-density Wi-Fi environments. The ECW5211-L features two 2x2:2 MU-MIMO radios that can each transmit data to multiple clients simultaneously, and together have a combined data rate of up to 1.2 Gbps. Besides, ECW5211-L's integrated Bluetooth Low Energy (BLE) also enables new value-added applications such as indoor location tracking, iBeacon, and other location-based services.

When used with an Edgecore 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 GHz and 5 GHz
- 802.11ac 2x2 MU-MIMO supporting up to 1.2 Gbps data rate
- Support up to 32 ESSIDs
- Enterprise-grade wireless security

Physical
- Wall and ceiling mountable
- High-density Wi-Fi deployment
- 802.3af Power over Ethernet (PoE)
- Gigabit LAN Ethernet port
- Bluetooth Low Energy (BLE)

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
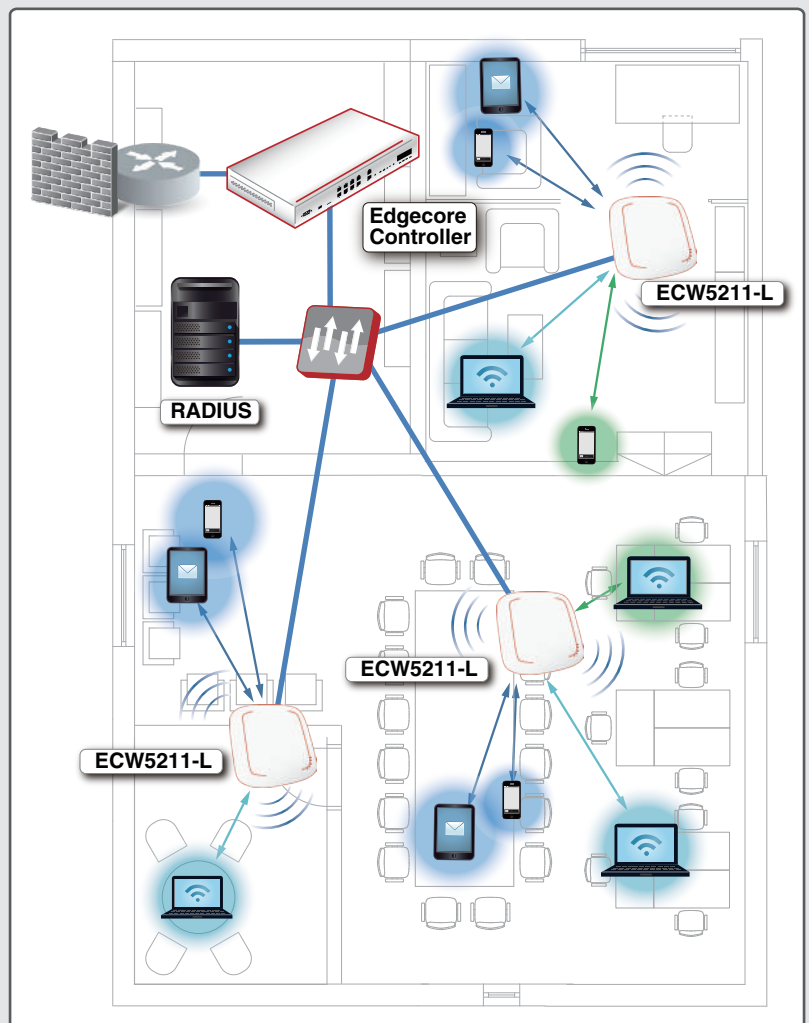
Indoor Access Point

Features

Physical

Power:
- DC Input: 12 V/1.0 A (power adapter optional)
- PoE: 802.3af compliant (PoE injector optional)

Dimensions: 14.7 cm (L) x 14.7 cm (W) x 3.5 cm (H)

Weight: 0.36 g (0.78 lb)

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
- USB: 1 x USB 2.0 port

LED Indicator: Power/2G-WiFi/5G-WiFi/LAN

Buttons: Reset/Restart

Environmental Conditions:
- Operating Temperature: 0°C (32°F) to 50°C (122°F)
- Operating Humidity: 5% to 95% non-condensing

Power Consumption: 9.0 W max.

Antenna:
- Type: 3 x built-in PIFA (2 x 2.4 GHz and 5 GHz, 1 x Bluetooth Low Energy)
- Gain: 3 dBi (2.4 GHz), 5 dBi (5 GHz), 3 dBi (BLE)

Mounting: Wall/ceiling mount (mounting kit included)

Wi-Fi

Standards:
- 802.11a/b/g/n/ac; Wave 2
- 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 ; MU-MIMO support

Output Power:
- 2.4 GHz: Up to 19 dBm[1]
- 5 GHz: Up to 19 dBm[1]

Channelization: 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[2]: 36 – 165 (US), 36 – 140 (Europe), 36 – 140 (Japan)

ESSIDs: Up to 16 per radio (32 total)

Certifications: FCC (United States), CE (Europe)

Performance

Physical Data Rate:
- Up to 300 Mbps (2.4 GHz)
- Up to 867 Mbps (5 GHz)

Concurrent Users: Up to 256 (128 on 2.4 GHz, 128 on 5 GHz)

Quality of Service

Wireless QoS (802.11e/WMM)

DSCP (802.1p)

Airtime fairness

Band steering

Multicast to unicast conversion

Optimal client filtering

Management

Deployment:
- Standalone
- Tunneled management by controller
- IPv4 and IPv6 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

Layer 2/Layer 3 fast roaming

Receive Sensitivity

Operating Mode	Data Rate	Receive Sensitivity (dBm)
802.11b	1 Mbps	-95
	11 Mbps	-86
802.11a	6 Mbps	-87
	54 Mbps	-70
802.11g	6 Mbps	-89
	54 Mbps	-72
802.11n (HT20)	MCS0	-88
	MCS7	-67
	MCS8	-88
	MCS15	-67
802.11n (HT40)	MCS0	-85
	MCS7	-66
	MCS8	-85
	MCS15	-66
802.11ac (VHT20)	MCS0	-86
	MCS8	-64
802.11ac (VHT40)	MCS0	-83
	MCS9	-61
802.11ac (VHT80)	MCS0	-81
	MCS9	-57

[1]: Maximum power is limited by local regulatory requirements
[2]: Some channels are restricted by local regulatory requirements

Features

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

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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.

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