ECW5211-L
INDOOR ACCESS POINT

INTRODUCTION

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 the 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

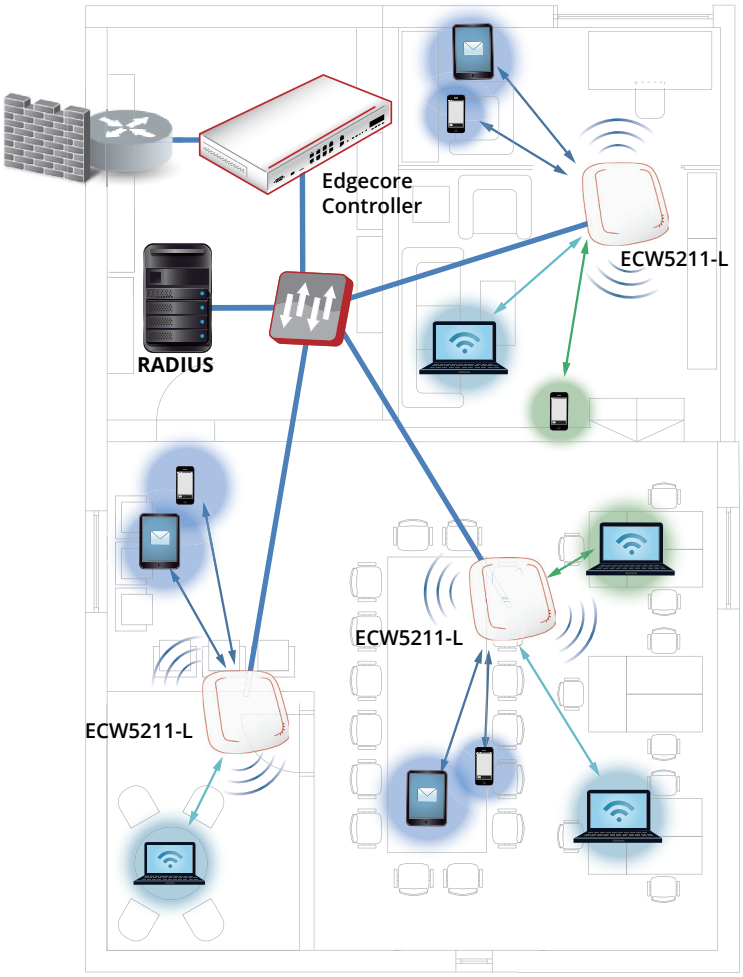
- Concurrent Dual-Band 2.4 & 5 GHz
- 802.11ac 2x2 MU-MIMO supporting up to 1.2 Gbps data rate
- Support up to 32 ESSIDs.
- Enterprise-Grade Wireless Security

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 & Guest Provisioning
- Fast Layer 2/Layer 3 Roaming
- User-based Access Management
  - Bandwidth Control
  - Firewall Policies
  - Routing Policies
- Wi-Fi Monetization
- Automatic firmware update when connected to EWS1000 controller



SPECIFICATIONS

PHYSICAL	
Power	• DC Input: 12V / 1.0A (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 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 • 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	• 9.0W max.
Antenna	• Type: 3 x Built-in PIFA (2 x 2.4 GHz & 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) • Anti-theft: 1 Kensington Lock hole on the metal part of housing

WI-FI	
Standards	• 802.11a/b/g/n/ac ; Wave 2 • Concurrent dual-band 2.4 & 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)

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

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 • CAPWAP Tunnel • IPv4 & IPv6 compatible
Configuration	• Web User Interface (HTTP/ HTTPS) • SNMP v1, v2c, v3

SECURITY

Wireless Security	• 802.11i • WEP • WPA/WPA2 Mixed (TKIP/AES Mixed) • WPA2-Personal (AES) • WPA2-Enterprise (AES)
32 VLANs in 802.1Q (VLAN ID 1~4000)	
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
	MSC15	-66
802.11ac (VHT20)	MCS0	-86
	MCS8	-64
802.11ac (VHT40)	MCS0	-83
	MCS9	-61
802.11ac (VHT80)	MCS0	-81
	MCS9	-57

FEATURES HIGHLIGHTS

- CAPWAP protocol is used for the tunnel between the AP and EWS1000 controller
- Supports at least 32 VLANs in the IEEE 802.1Q standard with VLAN ID between 1 (one) and 4000 (four thousand); each SSID can be associated with a VLAN ID independently
- Automatic firmware upgrade when connected to WLAN controller
- Fully supports the IEEE802.11i, WPA2, WPA and AES protocols
- Supports at least 64 (up to 128 on 2.4G and up to 128 on 5G) clients connected to an AP simultaneously
- The number of customers per AP is not limited or restricted by licenses

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