

ECW5410-L(ID)

INDOOR ACCESS POINT



INTRODUCTION

The ECW5410-L is a concurrent dual-band 802.11ac Wave 2 high-density access point. Featuring dual 4x4 Multi-User MIMO (MU-MIMO) radios, the ECW5410-L can simultaneously support up to 600 Mbps and 1.73 Gbps data rates for both 2.4GHz and 5GHz bands, far surpassing the throughput of the latest 802.11ac Wave 1 access points. It provides a Gigabit LAN port for Ethernet-capable network devices. The combination 802.11ac Wave 2 MU-MIMO technology and 4x4 spatial streams makes the ECW5410-L a top choice for high-density environments such as stadiums, arenas, and conference rooms.

When ECW5410-L is deployed and centrally managed by Edgecore EWS Controller, additional value-added applications such as user authentication, and captive portals can be used to provide an ideal solution for all types of businesses.

HIGHLIGHTS

WI-FI

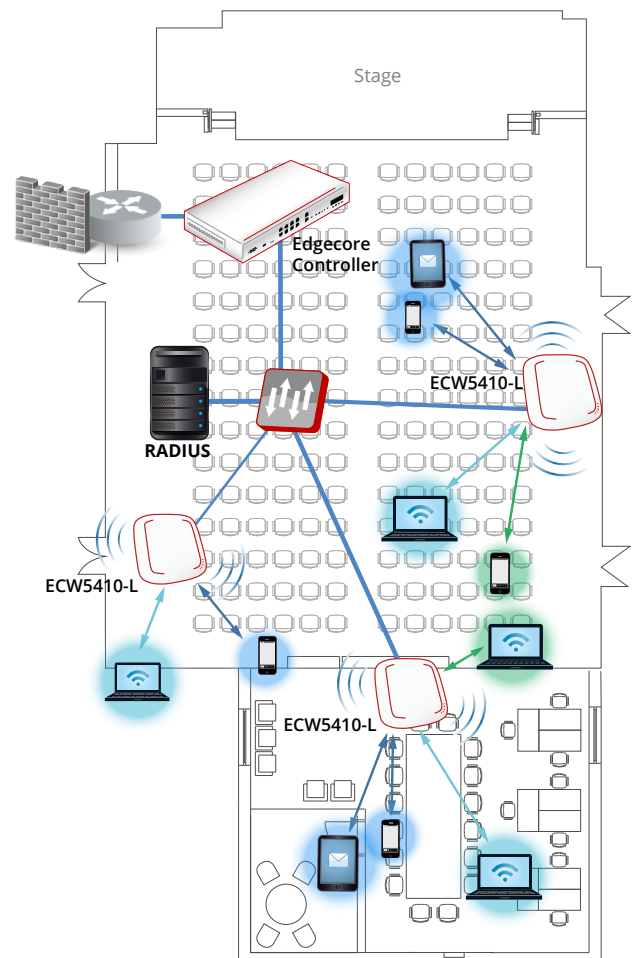
- Concurrent Dual-Band 2.4 & 5 GHz
- 802.11ac 4x4 MU-MIMO supporting up to 2.3 Gbps data rate
- Support up to 32 ESSIDs.
- Enterprise-Grade Wireless Security

PHYSICAL

- Wall and ceiling mountable
- High Density Wi-Fi deployment
- 802.3af PoE LAN port

MANAGEMENT WITH CONTROLLER

- Captive Portal & Guest Provisioning
- Fast Layer 2/Layer 3 Roaming
- User-based Access Management
 - Bandwidth Control
 - Firewall Policies
 - Routing Policies



SPECIFICATIONS

PHYSICAL	
Power	<ul style="list-style-type: none"> DC Input: 12V / 2.5A (Power adapter optional) PoE: 802.3at compliant (PoE injector optional)
Dimensions	<ul style="list-style-type: none"> 19.0 cm (L) x 19.0 cm (W) x 3.3 cm (H)
Weight	<ul style="list-style-type: none"> 0.61 kg (1.34 lbs)
Interfaces	<ul style="list-style-type: none"> Uplink: 1 x 10/100/1000Base-T Ethernet, Auto MDIX, RJ-45 with 802.3at PoE LAN: 1 x 10/100/1000Base-T Ethernet, Auto MDIX, RJ-45 Console: 1 x RJ-45 Port USB: 1 x USB 2.0 Port
LED Indicator	<ul style="list-style-type: none"> Power / 2.4G-WiFi / 5G-WiFi / ETH 1 (PoE) / ETH 2
Buttons	<ul style="list-style-type: none"> Restart / Reset
Environmental Conditions	<ul style="list-style-type: none"> Operating Temperature: 0°C (32°F) to 45°C (113°F) Operating Humidity: 5% to 95% non-condensing
Power Consumption	<ul style="list-style-type: none"> 22.5W max.
Antenna	<ul style="list-style-type: none"> Type: 4 x Built-in PIFA (4 x 2.4 GHz & 5 GHz) Gain: 3 dBi (2.4 GHz), 5 dBi (5 GHz)
Mounting	<ul style="list-style-type: none"> Wall/Ceiling mount (Mounting kit included)
WI-FI	
Standards	<ul style="list-style-type: none"> 802.11a/b/g/n/ac ; Wave 2 Concurrent dual-band 2.4 & 5 GHz
Supported Data Rates	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 4 x 4
Spatial Streams	<ul style="list-style-type: none"> 4; MU-MIMO support
RF Output Power*1	<ul style="list-style-type: none"> 2.4 GHz: Up to 24 dBm*2 5 GHz: Up to 24 dBm*2
Channelization	<ul style="list-style-type: none"> 20 MHz 40 MHz 80 MHz
Frequency Band	<ul style="list-style-type: none"> 2400 – 2483.5 MHz 5150 – 5250 MHz 5250 – 5350 MHz 5725 – 5825 MHz
Max Bandwidth	<ul style="list-style-type: none"> 2400 – 2483.5 MHz : ≤ 40 MHz 5150 – 5250 MHz : ≤ 80 MHz 5250 – 5350 MHz : ≤ 80 MHz 5725 – 5825 MHz : ≤ 80 MHz
Operating Channels	<ul style="list-style-type: none"> 2.4 GHz: 1 – 13 (Indonesia) 5 GHz: 36 – 165 (Indonesia)
ESSIDs	<ul style="list-style-type: none"> Up to 16 per radio (32 total)
Certifications	<ul style="list-style-type: none"> FCC (United States), CE (Europe)

*1: RF output power aggregates across MIMO chains and doesn't contain antenna gain

*2: Maximum power is limited by local regulatory requirements

PERFORMANCE

Physical Data Rate	<ul style="list-style-type: none"> Up to 600 Mbps (2.4 GHz) Up to 1733 Mbps (5 GHz)
Concurrent Users	<ul style="list-style-type: none"> 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

SECURITY

Wireless Security	<ul style="list-style-type: none"> WEP WPA/WPA2 Mixed (TKIP/AES Mixed) WPA2-Personal (AES) WPA2-Enterprise (AES)
VLAN Tagging (802.1Q)	
Station Isolation	
DHCP Snooping	
Layer-2 Firewall	

MANAGEMENT

Deployment	<ul style="list-style-type: none"> Standalone Tunneled management by Controller IPv4 & IPv6 compatible LLDP
Configuration	<ul style="list-style-type: none"> Web User Interface (HTTP/HTTPS) SNMP v1, v2c, v3

MOBILITY/ROAMING

Layer 2/Layer 3 Fast Roaming
Hotspot 2.0

RECEIVE SENSITIVITY

Operating Mode	Data Rate	Receive Sensitivity (dBm)
802.11b	1 Mbps	-97
	11 Mbps	-89
802.11a	6 Mbps	-90
	54 Mbps	-73
802.11g	6 Mbps	-91
	54 Mbps	-74
802.11n (HT20)	MCS0	-90
	MCS7	-70
	MCS8	-90
	MCS15	-70
802.11n (HT40)	MCS0	-87
	MCS7	-68
	MCS8	-87
	MCS15	-68
802.11ac (VHT20)	MCS0	-90
	MCS8	-67
802.11ac (VHT40)	MCS0	-87
	MCS9	-61
802.11ac (VHT80)	MCS0	-84
	MCS9	-58