

# E-LINK Blaze Wave2.0 MU-MIMO 1200 Mbps Dual Band Access Point



## OVERVIEW

E-LINK Blaze offers 2 x 2 MU-MIMO latest 802.11ac/a/b/g/n Wave-2 technology with 5dBi antenna to provide excellent coverage and capacity. It is concurrent Dual-band 2.4/5GHz Wi-Fi Access Point that provides best in class Indoor Wi-Fi coverage at signaling rates up to 900 Mbps on 5 GHz and 300 Mbps on 2.4 GHz. E-LINK Blaze is designed for medium to large areas requiring Indoor Wi-Fi coverage.

The E-LINK Blaze AC Indoor has significantly higher capacity and increased coverage capabilities over conventional Wi-Fi Access Points due to a number of factors working in concert. These factors are the latest MU technology.

E-LINK Blaze has on Board Industrial grade PA and LNA which improved the coverage significantly as compared to any standard access point.

Based on CAPWAP protocol, E-Link Controller Centralized management, Cloud Server remote configuration, easy installation.

For connection into the network the two Gigabit Ethernet interface on the E-LINK Blaze AC Indoor can connect to a wired backbone.

EION E-LINK Blaze AC can be configured as a standalone access point, or as part of a group of APs managed by EION's Network Controller. With up to eight different SSIDs per AP, E-LINK Blaze AC products can form a powerful 3G/4G offload solution for service providers and enterprises.

## PRODUCT FEATURES

- Indoor MU-MIMO 802.11ac/a/b/g/n Wi-Fi AP supports dual-band operation in 2.4 GHz & 5.8 GHz (Wave-2)
- Dual band - 2.4 GHz + 5GHz
- 2 x 2 MIMO Technology, up to **1200 Mbps**
- 128 Simultaneous Users (64 in 2.4 GHz + 64 in 5 GHz)
- 360-degree coverage
- **Increased Receiver Sensitivity for better coverage**
- User Access Control (define radius of AP)
- Beamforming
- Central Controller Managed
- Zero-Touch Configuration from Controller
- IEEE 802.11ac compliant and Backward compatible with 802.11a/b/g/n
- Real Time Network Load Graphs
- Watchdog Timer
- User configured Timed Reboots

## ORDERING INFORMATION

**9180-00-10-00 | E-Link Blaze Wave2 MU-MIMO Dual Band Wall/Ceiling Mount Indoor Access Point**

## RADIO SPECIFICATION

<b>Topology</b>	Standard Wireless LAN Topology (Multiple Modes Supported)						
<b>Frequency</b>	2.4 GHz and 5 GHz (Dual-Band in a single enclosure)						
<b>Channel Size</b>	20 MHz ; 40 MHz ; 80 MHz (5GHz Only)						
<b>Modulation</b>	OFDM : BPSK, QPSK, 16-QAM 64-QAM and 256-QAM						
<b>Signaling Rate</b>	900 Mbps on 5 GHz and 300 Mbps on 2.4 GHz						
<b>Integrated Antenna</b>	5dBi @ 2.4GHz, 5dBi @ 5GHz						
<b>Output Power</b>	5GHz Up to + 23 dBm (aggregated 26 dBm), 2.4 GHz Up to + 23 dBm (aggregated 26 dBm), configurable in 1dB step						
<b>Receiver Sensitivity</b> (BER = 10 <sup>-6</sup> ) +/- 2dB	5 GHz				2.4 GHz		
	Modulation	20 MHz	40 MHz	80 MHz	Modulation	20 MHz	40 MHz
	BPSK	-94 dBm	-91 dBm	-90 dBm	BPSK	-94 dBm	-93 dBm
	16-QAM	-82 dBm	-79 dBm	-76 dBm	16-QAM	-84 dBm	-82 dBm
	64-QAM	-70 dBm	-67 dBm	-64 dBm	64-QAM	-75 dBm	-72 dBm
	256-QAM	NA	-65 dBm	-61 dBm	256-QAM	NA	NA
<b>Duplexing Format</b>	Dynamic Time Division Duplex (TDD), Half-Duplex						
<b>Medium Access Control</b>	IEEE 802.11ac/abgn						
<b>Data Rate Selection</b>	Dynamic Adaptive Modulation per Link						

## NETWORK SPECIFICATIONS

<b>Network Connection</b>	2 x Gigabit Ethernet ports ; Auto MDI-X RJ45 10/100/1000 Mbps Ethernet
<b>Operational Mode</b>	Transparent Bridging (per OSI Layer2), Multicast
<b>Traffic Management</b>	Standard WMM; User Cloud Authentication
<b>MAC Filtering and Firewall</b>	Filtering through Standard MAC address, Firewalls – Zones
<b>VLAN</b>	Data Tagging/Un-tagging, 802.1q transparency, VLAN Management; SSID to VLAN Mapping
<b>NAT</b>	1:N NAT configurable through CPE GUI
<b>DHCP</b>	DHCP Client , DHCP server for LAN devices when in NAT mode, PPPoE, L2TP
<b>Ipv6</b>	Ipv6 pass through in bridge mode
<b>Routes</b>	Add static Routes
<b>Operation Mode</b>	Standalone, Hotspot, E-Link Controller (Centralized Network Management & Configuration System)
<b>Enhanced Control</b>	<ul style="list-style-type: none"> <li>- Hotspot and Guest Portal Support</li> <li>- Powerful Network Diagnostic Utilities</li> <li>- Real-time Network Load Graphs</li> </ul>

## SECURITY

<b>Management Access</b>	Username and Password Compatible with all modern web browsers and Windows 7+ OS
<b>Encryption</b>	WEP (64, 128, 154), WPA1 (TKIP), WPA2 (CCMP – AES 128, CBC-MAC for headers).

## MANAGEMENT

<b>Management Access</b>	Over the Air & Wired over prioritized ports
<b>Remote Configuration/ Monitoring</b>	HTML Web-GUI, E-LINK Controller
<b>Installation Management</b>	Wireless Link Monitor and Diagnostic Tool; <ul style="list-style-type: none"> <li>• Provides noise and RSSI signal levels as well as other statistical information</li> <li>• Real-time view of available over the air bandwidth</li> <li>• Real-Time Link Quality Metrics</li> <li>• Built-in Spectrum Analyzer</li> </ul>
<b>Backup Configuration</b>	Save Radio Configuration to local PC
<b>Software Upgrade</b>	Over the Air or local, Web-based upgrade
<b>Services</b>	Auto Reboot, Ping Watchdog

## PHYSICAL, ELECTRICAL & ENVIRONMENTAL

<b>Power Consumption</b>	Typ. < 30 Watts
<b>Power Supply</b>	100-240V, 50/60 Hz AC; UL/CSA approved 48 Volt POE system; DC power Jack (12V to 24V). The included power supply includes one standard 24V DC adaptor.
<b>Temperature Range</b>	Operating: -20° C to +55° C Storage: -40° C to +70° C
<b>Relative Humidity</b>	Operating: 0% to 100% (condensing); Storage: Max. 90% (non-condensing)
<b>Mounting Bracket</b>	Supports Wall-Mounted or Ceiling Mounted
<b>Weight</b>	Carton Box 20 Units – 10 Kg
<b>Dimensions</b>	Carton Box 20 Units – 515 x 435 x 491 mm
<b>Lightning Protection</b>	Integrated, Telcordia GR-1089 compliant (Meets IEC 61000-4-2/ 4-4)

## STANDARDS COMPLIANCE

<b>Materials Compliance</b>	RoHS/WEEE
<b>Certification</b>	CE, FCC & IC modular approvals

## BOX CONTENTS

<b>Each Box Contains the following items</b>	<ul style="list-style-type: none"> <li>• E-LINK Blaze Wall/Ceiling Indoor 2 x 2 MU-MIMO Access Point</li> <li>• 48V PoE Injector</li> <li>• LAN Cable</li> <li>• Wall Mount Accessory</li> <li>• Quick Start Guide</li> </ul>
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