

E-LINK RAPID 3.0

High-Performance 802.11ac 1200 Mbps Dual Band Outdoor Access Point



OVERVIEW

E-LINK Rapid 3.0 is a high-performance industrial dual band outdoor access point with next generation 802.11ac standard with 14 dBi and 12dBi inbuilt MIMO panel antenna to provide excellent long-range coverage and capacity. It is extremely suitable for wireless security and long range PTP/PTMP connections. It excels both in performance and user-friendliness with easy installation, configuration and maintenance. The professional IP65 waterproof, dust-proof ABS plastic enclosure makes the radio suitable for extreme hot and cold harsh environments. The signaling rate is 1200 Mbps (900 Mbps in 5Ghz and 300 Mbps in 2.4Ghz) and range 3000 meters for PTP connections.

E-LINK Rapid 3.0 has multiple operation modes suitable for different network and environments including AP, repeater and WISP modes, which can meet multiple Wi-Fi transmission scheme demands. The transmission RF power is adjustable based on the environment. It cuts down RF power in high density environments and increases RF power in long range environments to improve performance. This employs Wi-Fi interference mitigation using TDMA proprietary protocol.

E-Link Rapid 3.0 supports 48V active POE and works with IEEE 802.3at standard POE switch or 48V POE Adapter. It supports 64//128 bit WEP security, 128 bit WPA (TKIP/AES) security. Firewall support including IP filtering, MAC filtering and URL filtering.

PRODUCT FEATURES

- Latest 802.11ac/b/g/n standard
- Data Rate - 5 GHz: 900 Mbps;
2.4 GHz: 300 Mbps
- Built-in 14dBi and 12dBi panel antenna
- Less Wi-Fi interference, stable signal
- IP65 professional ABS plastic enclosure
- 26 dBm aggregated transmit power
- Supports multi SSID upto 8
- Supports DDNS, VPN passthrough, port forwarding and DMZ host.
- 64/128 bit WEP security, 128 bit WPA (TKIP/AES) security.
- Supports Gateway (PPPOE, Static IP, Dynamic IP).
- Operation modes: Wireless AP, Repeater and WISP.
- IP filter, URL filter, MAC filter support
- Interface
 - 1 x 10/100/1000 Mbps WAN Port
 - 1 x 10/100/1000 Mbps LAN Port
 - 1 x Reset button

ORDERING INFORMATION

9180-00-30-01	E-LINK Rapid 3.0 802.11ac 1200 Mbps Dual Band Outdoor Radio MOQ 1-100 units
9180-00-30-01-M1000	E-LINK Rapid 3.0 802.11ac 1200 Mbps Dual Band Outdoor Radio MOQ 1000 units
9180-00-30-01-M2000	E-LINK Rapid 3.0 802.11ac 1200 Mbps Dual Band Outdoor Radio MOQ 2000 units

RADIO SPECIFICATIONS

Standard	IEEE802.11ac/b/g/n				
Frequency	5GHz :5.020GHz to 6.1GHz 2.4GHz: 2.312GHz to 2.483GHz				
Modulation	OFDM: BPSK, QPSK, 16-QAM, 64-QAM DSSS: DBPSK, DQPSK, CCK				
Signaling Rate	1200Mbps. 5GHz: 900 Mbps; 2.4GHZ: 300 Mbps				
Antenna	Built-in 14dBi and 12 dBi MIMO Panel Antenna				
Output Power	Up to + 23 dBm (aggregated 26 dBm), configurable in 1dB step				
	2.4 GHZ				
	802.11a	54M	-72dBm	6M	-90dBm
	802.11n HT20	MCS7	-70dBm	MCS0	-88dBm
	802.11n HT40	MCS7	-68dBm	MCS0	-86dBm
	802.11ac HT80	MCS9	-58dBm	MCS0	-85dBm
Receiver Sensitivity (BER = 10 ⁻⁶) +/- 2dB	2.4 GHZ				
	802.11n	MCS7	-70dBm	MCS0	-88dBm
	802.11g	54Mbps	-72dBm	6Mbps	-90dBm
	802.11b	11Mbps	-85dBm	1Mbps	-94dBm
Max Users	128				
PPM	20ppm				
POE Power	IEEE 802.3at 48V POE				

NETWORK SPECIFICATIONS

Interface	1 x 10/100 /1000Mbps RJ45 WAN Port 1 x 10/100 /1000Mbps RJ45 LAN Port 1 x Reset button, press 15 seconds to revert to default setting
SSID	Multiple SSID up to 8
Operation Mode	Wireless AP, Gateway, WISP, WiFi Repeater
WAN Type	Dynamic IP / Static IP / PPPoE / L2TP (Dual Access) / PPTP (Dual Access)
Protocols	IPv4
AAA	Supports independent AAA (802.1x EAP) Controller Manageable for AP Configuration

SECURITY

Wireless Security	64/128-bit WEP, WPA / WPA2, WPA-PSK/ WPA2-PSK, 802.1x encryption
SSID	Multiple SSID (4 SSID for 2.4GHz, 4 SSID for 5.8GHZ)
Firewall	DoS, SPI Firewall, IP Address Filter/MAC Address Filter/Domain Filter IP and MAC Address Binding

MANAGEMENT

Management	Firmware GUI , Remote Management, WLAN Controller, Cloud Management System
System Requirements	Microsoft Windows 98SE, NT, 2000, XP, Vista™ or Windows 7, Windows 8, MAC OS, NetWare, UNIX or Linux

PHYSICAL, ELECTRICAL & ENVIRONMENTAL

Power Consumption	< 30W
Temperature Range	Operating: -40° C to +55° C Storage: -40° C to +70° C
Humidity	5% to 95% non-condensing
Lightning Protection	Yes
Size	315mm x 145mm x 80mm

STANDARDS COMPLIANCE

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

BOX CONTENTS

Each Box Contains the following items	<ul style="list-style-type: none"> • E-LINK Rapid 3.0 802.11ac 1200 Mbps Dual Band Outdoor Access Point • Ethernet Cable • Mounting Accessories • Quick Start Guide
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E-LINK Rapid 6.0 Wave 2.0 MU-MIMO Dual-Band 1300 Mbps Outdoor Access Point



OVERVIEW

E-LINK Rapid 6.0 is 802.11ac Wave2.0 dual-band high power industrial use outdoor access point with high speed of 1300 Mbps (2.4GHz 400Mbps, 5.8GHz 900Mbps). The Gigabit WAN port and high data rate makes high density of users access concurrently and enjoy seamless streaming of high bandwidth-intensive applications. E-LINK Rapid 6.0 provides great communication efficiency by complying with Wave2.0 Technology, 256 QAM modulation, supporting Spatial Streams MU-MIMO (Multi-User Multiple-Input Multiple-Output).

E-LINK Rapid 6.0 Wave2.0 amplifiers are designed to provide 300mW high power. The N-type waterproof connectors can connect with panel or omni outdoor antenna which greatly increases the Wi-Fi range and supplies a very stable signal.

E-LINK Rapid 6.0 Wave2.0 excels in interference mitigation, performance, stability with its Beamforming, DFS, Airtime Fairness, Band Steering and OFDM. E-LINK Rapid 6.0 Wave2.0 works with WLAN controller in wireless AP operation mode with multiple user-friendly remote management features. It supports captive portal authentication like Member/SMS/no authentication login, etc. making the E-Link Rapid 6.0 suitable for enterprise WiFi networks. It supports Gateway (PPPOE, static IP, dynamic IP), Wireless AP, Repeater, WISP operation mode

It has an integrated IEEE802.3at Power over Ethernet (PoE), for easy installation and lower cost. This is useful to install in areas where power outlets are not readily available, eliminating the mess of altering existing network infrastructure. E-LINK Rapid 6.0 Wave2.0 has IP67 metal enclosure with operating temperature of -30°C to 70°C, making it operationally suitable for any extreme weather conditions.

PRODUCT FEATURES

- IEEE 802.11ac Wave2.0 Outdoor AP
- Dual-band, 1300Mbps Data Rate; 300mW high power
- 4 x N type connector, can work with omni/panel antennas
- Supports IEEE 802.3at PoE standard
- Supports SSID broadcasting
Multi SSID up to 8 (4 SSID in 2.4GHz, 4 SSID in 5GHz)
- 128 max users
- Supports Beamforming, Band Steering
- WAN: 1 x 10/100/1000Mbps
- Supports DFS, Airtime Fairness, OFDM support
- Central WLAN Controller allows Remote Management
- Supports DDNS, VPN pass through
- Supports Port forwarding and DMZ host
- IP67 Outdoor metal enclosure

ORDERING INFORMATION

9180-00-60-05	E-LINK Rapid 6.0 Wave 2.0 MU-MIMO Dual-Band 1300 Mbps Outdoor Access Point MOQ 1-100
9180-00-60-05-M1000	E-LINK Rapid 6.0 Wave 2.0 MU-MIMO Dual-Band 1300 Mbps Outdoor Access Point MOQ1000
9180-00-60-05-M2000	E-LINK Rapid 6.0 Wave 2.0 MU-MIMO Dual-Band 1300 Mbps Outdoor Access Point MOQ2000

RADIO SPECIFICATIONS

Standard	IEEE 802.11ac/b/g/n, MU-MIMO technology				
Frequency	2.4G: 802.11b/g/n: 2.4GHZ - 2.484GHZ 5GHz:802.11a/n/ac MIMO: 5.150GHz~5.850GHz				
Channel Size	20 MHz; 40 MHz; 80 MHz (5GHz Only)				
Modulation	OFDM: BPSK, QPSK, 16-QAM, 64-QAM, 128-QAM (5GHz Only), 256-QAM (5GHz Only) DSSS; DBPSK, DQPSK, CCK				
Signaling Rate	1300Mbps (2.4GHz 300Mbps, 5.8GHz 900Mbps)				
Antenna	4 x N type connector; can work with omni/panel antennas				
Output Power	5GHz: Up to 21 dBm (aggregated 24 dBm), 2.4 GHz: Up to 24 dBm (aggregated 27 dBm)				
Interface	1 x 10/100 /1000Mbps RJ45 WAN Port 1 x 10/100 / 1000Mbps RJ45 LAN Port 1 x Reset button, press 10 seconds to revert to default setting				
2.4 GHz Receiver Sensitivity	802.11b	11M	-85dBm	1M	-94 dBm
	802.11g	54M	-72dBm	6M	-90 dBm
	802.11n HT20	MCS7	-70dBm	MCS0	-88 dBm
	802.11n HT40	MCS7	-68dBm	MCS0	-86 dBm
5 GHz Receiver Sensitivity	802.11a	54M	-72dBm	1M	-90 dBm
	802.11n HT20	MCS7	-70dBm	6M	-88 dBm
	802.11n HT40	MCS7	-68dBm	MCS0	-86 dBm
	802.11ac HT80	MCS9	-58dBm	MCS0	-85 dBm
Max Users	128				

FIRMWARE SPECIFICATIONS

Operation mode	Wireless AP, Gateway, WISP, Wi-Fi Repeater
WAN Type	Dynamic IP/Static IP/PPPoE/L2TP (Dual Access) /PPTP (Dual Access)
Wireless Security	64/128-bit WPA / WPA2(PSK/AES) encryption
SSID	Multiple SSID (4 SSID for 2.4G, 4 SSID for 5.8G)
Firewall	IP Address Filter/MAC Address Filter/Domain Filter IP and MAC Address Binding
Protocols	IPv4
System Requirements	Microsoft Windows 7, Windows 8, MAC OS, UNIX or Linux or latest
Management	Firmware GUI, Remote Management, WLAN Controller, Cloud Management System

PHYSICAL, ELECTRICAL & ENVIRONMENTAL

Power Consumption	48V PoE<30W
Temperature Range	Operating: -20° C to +55° C; Storage: -40° C to +70° C
Humidity	5% to 95% non-condensing
Mounting Bracket	Supports Wall-Mounted or Ceiling Mounted
Lightning Protection	±2KV lightning protection

BOX CONTENTS

Each Box Contains the following items	<ul style="list-style-type: none"> • E-LINK Rapid 6.0 Wave 2.0 MU-MIMO Dual-Band 1300 Mbps Outdoor Access Point • Ethernet Cable • Wall Mount Accessory
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STREAM PLUS 802.11ax 4x4 MU-MIMO AP

Dual Band 3.5 Gbps Outdoor Wi-Fi Access Point

OVERVIEW

EION STREAM PLUS is a dual-band 2.4/5GHz 802.11ax/ac/an 4X4 MU-MIMO 1024 QAM Outdoor Wi-Fi Access Point with EasyMesh capabilities that provides extensive outdoor Wi-Fi coverage at data rates up to 2402 Mbps. Stream Plus is designed for bandwidth hungry streaming and critical business application contingent dense deployments with wide area coverage.

The Stream Plus is the best solution for dense deployments as it delivers 4x higher throughput, capacity and increased coverage capabilities over conventional Wi-Fi Access Points due to several factors working in concert. These factors are the 4x4 MU-MIMO, 1024 QAM capability, DFS support advantage, latency down by 75%, OFDMA, increased output power, receiver gain capability and security protocols such as Target Wake Time (TWT) and WPA3. TWT reduces power consumption and medium access contention.

For connection into the network the 2.5 Gigabit Ethernet interface on the Stream Plus can connect to a wired backbone.

EION Stream Plus 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, Stream Plus products can form a powerful 3G/4G offload solution for service providers and enterprises.

The Stream Plus base radio is packaged in an IP67 ruggedized enclosure is suitable for all weather conditions. The specialized design of the finned enclosure allows for stable operation in high heat environments while the integrated vent plug protects electronics in high humidity conditions. The thick all-metal enclosure provides high EMI immunity for stable operation and secures communications in hostile environments.

PRODUCT FEATURES

- 802.11ax 4x4 MU-MIMO Outdoor Wi-Fi AP
- Dual-band operation in 2.4 GHz & 5 GHz
- 2.412 to 2.472GHz, 5.150 to 5.825GHz
- 2.4 GHz: up to 1147 Mbps data rate
- 5GHz: up to 2402 Mbps data rate plus more
- 17 dBm per chain Tx or 23 dBm aggregated
- OFDM: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024QAM
- Supports Dynamic Frequency Selection (DFS) Technology
- NLOS Urban Coverage with OFDM Technology
- SNMPv3 and Enterprise MIB for Advanced Network Management
- High Spectral Efficiency and Robust RF Network Performance
- Rugged Construction for All Weather Conditions
- NLOS Urban Coverage with OFDM Technology
- SNMPv3 and Enterprise MIB for Advanced Network Management
- High Spectral Efficiency and Robust RF Network Performance

ORDERING INFORMATION

9160-00-22-50-10 | Stream Plus 802.11ax 2.4/5 GHz, 4x4 MU-MIMO, Ruggedized Wireless AP

RADIO SPECIFICATIONS

Technology	IEEE 802.11ax MU-MIMO; EasyMesh
Frequency Range	2.412~2.472GHz & 5.150~5.825GHz (Dual-Band in a single enclosure)
Channel Size	20 MHz; 40 MHz (802.11n) and 40 MHz 802.11ax for 2.4 GHz 20 MHz, 40 MHz (802.11n/ac/ax), 80 MHz and 160 MHz (802.11ac/ax) auto switching
Modulation	OFDM: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024QAM
Signaling Rate	5GHz: up to 2402 Mbps data rate; 2.4 GHz: up to 1147 Mbps data rate
Output Power	17 dBm per chain or 23 dBm aggregated
Duplexing Format	Dynamic Time Division Duplex (TDD), Half-Duplex
Data Rate Selection	Dynamic Adaptive Modulation per Link

NETWORK SPECIFICATIONS

Network Connection	1x 2.5Gbps Ethernet port; 1x Gbps Ethernet port or SFP
Operational Mode	Transparent Bridging (per OSI Layer2), Multicast
Traffic Management	Advanced QoS per user (Hotspot Mode), Standard WMM
MAC Filtering and Firewall	Filtering through Standard MAC address, Firewalls - Zones
VLAN	Data Tagging/Un-tagging, 802.1q transparency, VLAN Management; SSID to VLAN Mapping
NAT	1:N NAT configurable through CPE GUI
DHCP	DHCP Client , DHCP server for LAN devices when in NAT mode, PPPoE, L2TP
IPv6	IPv6 pass through in bridge mode
Routes	Add static Routes
Operation Mode	Standalone, Hotspot, EION AP Controller
Enhanced Control	- Hotspot and Guest Portal Support - Powerful Network Diagnostic Utilities - Real-time Network Load Graphs

MANAGEMENT

Management Access	Over the Air & Wired over prioritized ports
Remote Monitoring	HTML Web-GUI, SNMP v3c (Set, Get and Traps with proprietary MIB) MIB files are available on request
Installation Management	Wireless Link Monitor and Diagnostic Tool; <ul style="list-style-type: none"> Provides noise and RSSI signal levels as well as other statistical information Real-time view of available over the air bandwidth Real-Time Link Quality Metrics Built-in Spectrum Analyzer
Backup Configuration	Save Radio Configuration to local PC
Software Upgrade	Over the Air or local, Web-based upgrade
Services	Auto Reboot, Ping Watchdog

PHYSICAL, ELECTRICAL & ENVIRONMENTAL

Power Consumption	Typ. < 20 Watts
Power Supply	100-240V, 50/60 Hz AC; UL/CSA approved 48 Volt POE system; DC power options available.



STREAM PRO 802.11ax 8x8 MU-MIMO AP

Dual Band up to 7.3 Gbps Data Rate

10GbE LAN; Fiber Port with 1024 QAM

OVERVIEW

EION STREAM PRO is a dual-band 2.4/5GHz 802.11ax/ac/n 2x(4x4) or 8X8 MU-MIMO 1024 QAM Outdoor Wi-Fi Access Point that provides ultra-high-speed Wi-Fi coverage at data rates up to 7.3 Gbps. Stream PRO is designed for bandwidth hungry streaming and critical business application contingent dense deployments with wide area coverage.

The Stream PRO is the best solution for dense deployments as it delivers 4x higher throughput, capacity and increased coverage capabilities over conventional Wi-Fi Access Points due to several factors working in concert. These factors are the 2x(4x4) MU-MIMO, 1024 QAM capability, DFS support advantage, latency down by 75%, OFDMA, increased output power and receiver gain capability.

For connection into the network the 1 x 10Gigabit Ethernet (10GbE) LAN/WAN RJ45 Port or SFP Fiber port on the Stream PRO can connect to a wired backbone.

EION Stream PRO 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, Stream PRO products can form a powerful 3G/4G offload solution for service providers and enterprises.

The Stream PRO base radio is packaged in an IP67 ruggedized enclosure is suitable for all weather conditions. The specialized design of the finned enclosure allows for stable operation in high heat environments while the integrated vent plug protects electronics in high humidity conditions. The thick all-metal enclosure provides high EMI immunity for stable operation and secures communications in hostile environments.

PRODUCT FEATURES

- 802.11ax 2x(4x4) MU-MIMO Outdoor Wi-Fi AP
- Dual-band operation in 2.4 GHz & 5 GHz
2.412 to 2.472GHz, 5.150 to 5.825GHz
- 2.4 GHz: up to 1147 Mbps data rate
- 5GHz: up to 4804 Mbps data rate plus more
- Max 23dBm per chain or 29 dBm (2 Chain)
- OFDM: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024QAM
- Supports Dynamic Frequency Selection (DFS)
- 1x 10Gigabit Ethernet LAN/WAN RJ45 Port
- 1x SFP+ Port
- Surge Protection
- NLOS Urban Coverage with OFDM Technology
- SNMPv3 and Enterprise MIB for Advanced Network Management
- High Spectral Efficiency and Robust RF Network Performance

ORDERING INFORMATION

9160-00-22-50-20 | Stream PRO 802.11ax 2.4/5 GHz, 8x8 MU-MIMO, Ruggedized Wireless AP

RADIO SPECIFICATIONS

Technology	IEEE 802.11ax MU-MIMO
Frequency Range	2.412 to 2.472GHz & 5.150 to 5.825GHz (Dual-Band in a single enclosure)
Channel Size	20 MHz; 40 MHz (802.11n) and 40 MHz 802.11ax for 2.4 GHz 20 MHz, 40 MHz (802.11n/ac/ax), 80 MHz and 160 MHz (802.11ac/ax) auto switching
Modulation	OFDM: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024QAM
Signaling Rate	5GHz: up to 4804 Mbps data rate; 2.4 GHz: up to 1147 Mbps data rate + addition options for up to total of 7.3 Gbps
Output Power	2.4 GHz: max 23 dBm per chain or 29 dBm per 2 Chain 5 GHz: max 20 dBm per chain or 26 dBm per 2 Chain
MU-MIMO	4x4 2.4GHz MU-MIMO and 2x(4x4) or 8x8 5GHz MU-MIMO
Duplexing Format	Dynamic Time Division Duplex (TDD), Half-Duplex
Data Rate Selection	Dynamic Adaptive Modulation per Link

NETWORK SPECIFICATIONS

Network Connection	1x 10Gigabit Ethernet (10GbE) LAN/WAN RJ45 Port (Auto MDI-X)
SFP	1x SFP+ Port
Operational Mode	Transparent Bridging (per OSI Layer2), Multicast
Traffic Management	Advanced QoS per user (Hotspot Mode), Standard WMM
MAC Filtering and Firewall	Filtering through Standard MAC address, Firewalls - Zones
VLAN	Data Tagging/Un-tagging, 802.1q transparency, VLAN Management; SSID to VLAN Mapping
NAT	1:N NAT configurable through CPE GUI
DHCP	DHCP Client , DHCP server for LAN devices when in NAT mode, PPPoE, L2TP
IPv6	IPv6 pass through in bridge mode
Routes	Add static Routes
Operation Mode	Standalone, Hotspot, EION AP Controller
Enhanced Control	- Hotspot and Guest Portal Support - Powerful Network Diagnostic Utilities - Real-time Network Load Graphs

MANAGEMENT

Management Access	Over the Air & Wired over prioritized ports
Remote Monitoring	HTML Web-GUI, SNMP v3c (Set, Get and Traps with proprietary MIB) MIB files are available on request
Installation Management	Wireless Link Monitor and Diagnostic Tool; <ul style="list-style-type: none"> Provides noise and RSSI signal levels as well as other statistical information Real-time view of available over the air bandwidth Real-Time Link Quality Metrics Built-in Spectrum Analyzer
Backup Configuration	Save Radio Configuration to local PC
Software Upgrade	Over the Air or local, Web-based upgrade
Services	Auto Reboot, Ping Watchdog

PHYSICAL, ELECTRICAL & ENVIRONMENTAL

Power Consumption	Typ. < 30 Watts
Power Supply	100-240V, 50/60 Hz AC; UL/CSA approved 48 Volt POE system; DC power options available.

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, ease in 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

Topology	Standard Wireless LAN Topology (Multiple Modes Supported)						
Frequency	2.4 GHz and 5 GHz (Dual-Band in a single enclosure)						
Channel Size	20 MHz ; 40 MHz ; 80 MHz (5GHz Only)						
Modulation	OFDM : BPSK, QPSK, 16-QAM 64-QAM and 256-QAM						
Signaling Rate	900 Mbps on 5 GHz and 300 Mbps on 2.4 GHz						
Integrated Antenna	5dBi @ 2.4GHz, 5dBi @ 5GHz						
Output Power	5GHz Up to + 23 dBm (aggregated 26 dBm), 2.4 GHz Up to + 23 dBm (aggregated 26 dBm), configurable in 1dB step						
Receiver Sensitivity (BER = 10 ⁻⁶) +/- 2dB	5 GHz				2.4 GHz		
	Modulation	20 MHz	40 MHz	80 MHz	Modulation	20 MHz	40 MHz
	BPSK	-95 dBm	-91 dBm	-90 dBm	BPSK	-95 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	
Medium Access Control	IEEE 802.11ac/abgn						
Data Rate Selection	Dynamic Adaptive Modulation per Link						

NETWORK SPECIFICATIONS

Network Connection	2 x Gigabit Ethernet ports ; 2 x 1GbE ports, RJ-45, PoE in on one port; Auto MDI-X RJ45 10/100/1000 Mbps Ethernet
Operational Mode	Transparent Bridging (per OSI Layer2), Multicast
Traffic Management	Standard WMM; User Cloud Authentication
MAC Filtering and Firewall	Filtering through Standard MAC address, Firewalls – Zones
VLAN	Data Tagging/Un-tagging, 802.1q transparency, VLAN Management; SSID to VLAN Mapping
NAT	1:N NAT configurable through CPE GUI
DHCP	DHCP Client , DHCP server for LAN devices when in NAT mode, PPPoE, L2TP
Routes	Add static Routes
Operation Mode	Standalone, Hotspot, E-Link Controller (Centralized Network Management & Configuration System)
Enhanced Control	<ul style="list-style-type: none"> - Hotspot and Guest Portal Support - Powerful Network Diagnostic Utilities - Real-time Network Load Graphs

SECURITY

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

MANAGEMENT

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

PHYSICAL, ELECTRICAL & ENVIRONMENTAL

Power Consumption	Typ. < 30 Watts
Power Supply	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.
Temperature Range	Operating: -20° C to +55° C Storage: -40° C to +70° C
Relative Humidity	Operating: 0% to 100% (condensing); Storage: Max. 90% (non-condensing)
Mounting Bracket	Supports Wall-Mounted or Ceiling Mounted
Weight	300 gram
Dimensions	20 x 20 x 12 cm

STANDARDS COMPLIANCE

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

BOX CONTENTS

Each Box Contains the following items	<ul style="list-style-type: none"> ● E-LINK Blaze Wall/Ceiling Indoor 2 x 2 MU-MIMO Access Point ● 48V PoE Injector ● LAN Cable ● Wall Mount/Ceiling Mount Accessory
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E-LINK Gateway Controller 1000

Multifunction Gigabit Gateway Router and
Controller for Wireless Access points



OVERVIEW

EION E-Link Gateway Controller 1000 is a Gigabit Enterprise Gateway Router for any network and remotely manage multiple Wireless Access Points including E-Link Outdoor and Indoor APs, while maintaining network stability in an economic way. It supports load balancing, Ethernet backup and Ethernet superimposed, multi-ISP access; DHCP, policy routing and VPN, together with smart flow control, abundant security, varied user management and multiple authentication functions. It is consistent to provide high efficiency and professional network connectivity for hotels, schools, hospitals, shopping malls, airports. It provides complete cost-effective, reliable, and convenient wireless coverage solutions.

E-Link Gateway Controller 1000 supports both group and individual AP configurations. It auto detects wireless APs, centrally manages SSID passwords, modes, channels, RF power and coverage thresholds of the APs. It can also reboot, reset or upgrade firmware remotely, with additional maintenance functionalities. It has a built-in DHCP Server and can assign IP addresses for wireless APs automatically when the AP is online. It supports user management and password protection. Users of different levels can be assigned with different permission credentials.

E-Link Gateway Controller 1000 supports smart QoS based on ports, individual users, user groups and user applications. It allows bandwidth reservation and dispatch by tunnel or by application. Different service profiles can be defined for different users and applications. This is accomplished through multiple queuing mechanisms like priority queuing, low latency queuing, custom queuing, weighted queuing, congestion avoidance, traffic policing, traffic shaping and priority marking.

E-Link Gateway Controller 1000 supports multiple Gigabit WAN and multiple routing functions like PPPoE/DHCP/Static IP access; works with different ISPs and up to 1024 end users can have access.

E-Link Gateway Controller 1000 supports WAN Port VLAN, VPN dial up, DNS Proxy, IP address translation, user behavior management, which makes it a powerful performer in enterprise networks.

It has abundant security mechanisms including TCP/UDP/ICMP Flooding, IP/MAC/URL/Web/filtering functions, Ping of Death and other related threats. It extends protection to every port of the router and enables ports to provide DoS/DDoS attack protection, traffic monitoring, Uniform Resource Locator (URL) filtering, and application layer filtering.

PRODUCT FEATURES

- Enterprise Gateway Controller for Wireless Access Points
- Multiple solutions in one device: Integrated router, flow control, firewall, behavior management, VPN functions, AP controller, etc.
- Multiple Gigabit WAN and multiple routing functions
- 6 x Gigabit RJ45 ports on board
 - Default 2 Gigabit WAN Port
 - 4 Gigabit LAN Ports (3 ports self-adaptive)
- Group AP Configuration support
- Automatic discovery and configuration of all Wireless APs in FIT AP mode
- Intelligent channel analysis and load balancing
- Smart QoS to configure individual users, user groups and user applications.
- TCP/UDP/ICMP Flooding, IP/MAC/URL/Web filtering security mechanisms
- Multiple authentication features
- Works with the third-party Radius server for advertising and billing functions.
- Assigns IP address for Wireless APs
- Separate DHCP rule and firewall can be configured for each LAN
- 1 x Reset Button
- 1 x USB3.0 Port; 2 x USB2.0 Port
- Remote Maintenance, auto firmware upgrade

ORDERING INFORMATION

9180-10-10-00 | E-LINK Gateway Controller 1000

RADIO SPECIFICATIONS

Interface	6 x Gigabit Ethernet RJ45 ports
Network Extension	1 x PCIE extension support
Port	1 x RJ45 Serial port
Reset Button	Yes
LED Indicator	1 x Power Indicator (Green) 1 x Status Indicator (Orange)
Power Switch	1 x Power Switch
USB Port	1 x USB3.0 Port; 2 x USB2.0 Port
Watchdog Support	Yes

FIRMWARE SPECIFICATIONS

AP Management	<ul style="list-style-type: none"> • Access and manage up to 1024 users • Manage up to 1024 wireless Access Points • Centrally and remotely manage and configure wireless APs • View user's status
Smart Flow Control	<ul style="list-style-type: none"> • One click smart flow control • Powerful multiline diversion • Automatic Application Priority
Load Balance	<ul style="list-style-type: none"> • Network access to multiple WAN and multiple ISP • Intelligent and powerful load balancing • Ethernet line backup • Ethernet superimposed • Protocol binding • Policy routing: based on IP address, destination IP address, source MAC address, network port, domain, destination port, extranet port, Identity binding
Behavior Management	<ul style="list-style-type: none"> • All-round to block P2P firmware • P2P flow control and bandwidth allotment • File and URL filter • Continuous network behavior monitoring
Bandwidth limitation	<ul style="list-style-type: none"> • IP-based bandwidth limitation • Safeguard / Restrict bandwidth • Time strategy • IP based session restriction
Routing	Static routing

MANAGEMENT SPECIFICATIONS

Authentication	<ul style="list-style-type: none"> • PPPoE authentication • Radius authentication: works with third-party Radius Server • Portal authentication: WEB password authentication, One-time password authentication, SMS authentication, WeChat Authentication
Management	<ul style="list-style-type: none"> • Web/CLI/Telnet management • Remote management
Others	DDNS, VPN management

SECURITY SPECIFICATIONS

Security Center	<ul style="list-style-type: none"> • MAC address filtering • UPR/key words filtering • Web content filtering • IP address filtering • Port mapping • DMZ
Defense Center	<ul style="list-style-type: none"> • TCP/UDP/ICMP flood defense • Block TCP scanning • Block ping WAN port
ARP Detection	<ul style="list-style-type: none"> • Send GARP packets • ARP Scanning on WAN/LAN port • Online detection • IP-MAC binding

PHYSICAL, ELECTRICAL & ENVIRONMENTAL

Power Supply	110-240V, ~60-70Hz~, 4.0A
Temperature Range	Operating: 0° C to +50° C Storage: -40° C to +70° C
Humidity	5% to 95% non-condensing
Certification	3C, RHOS
Unit Size	430(L)x480(W)x88(H)mm

BOX CONTENTS

Each Box Contains the following items	<ul style="list-style-type: none"> • E-LINK Controller 1000 • Power cable • Installation Accessory • Quick Start Guide
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