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

	5 GHZ			
Receiver Sensitivity (BER = 10^{-6}) +/- 2dB	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

	2.4 GHZ			
Receiver Sensitivity (BER = 10^{-6}) +/- 2dB	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: -40º C to +55º C Storage: -40º C to +70º 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	• E-LINK Rapid 3.0 802.11ac 1200 Mbps Dual Band Outdoor Access Point • Ethernet Cable • Mounting Accessories • Quick Start Guide