

RG-APF1260(MG-P)

AX3000 e-Lighten Multi-Service Wall Mount AP



Highlights

- Triple-Play of Wi-Fi & IPTV & Phone Services
- Turn Analog Phones into IP Phones
- AI Roaming Between Ethernet & e-Lighten APs
- Easy Optical Network Setup
- All-in-One Cloud

RG-APF1260(MG-P)

e-Lighten 2.0 Multi-Service Wall Mount AP



Wi-Fi 6 Optical Wall Mount AP



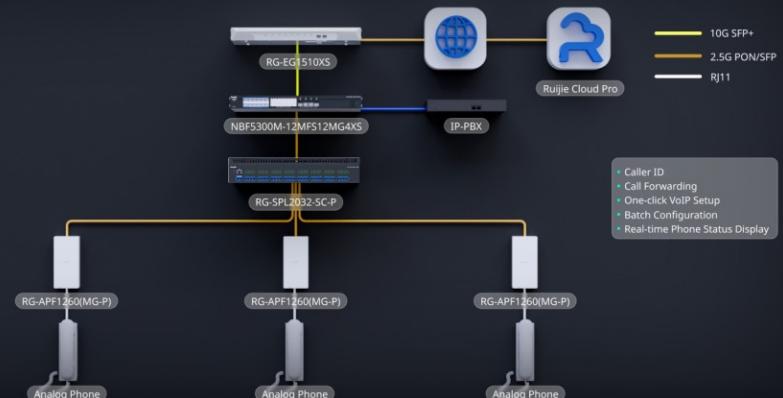
Triple-Play Services, Effortless Wiring

One optical cable carrying network, IPTV, and telephone services



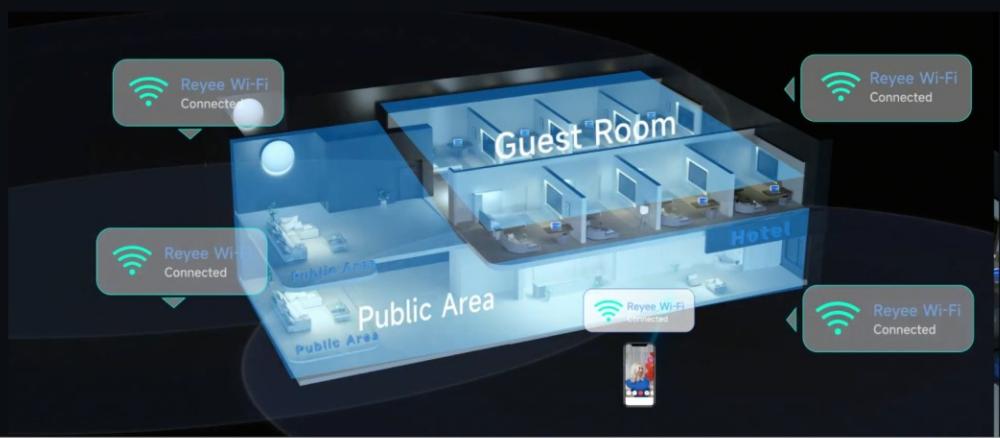
Smart Saving, Smarter Telephony

Bring IP phone features to your analog phones



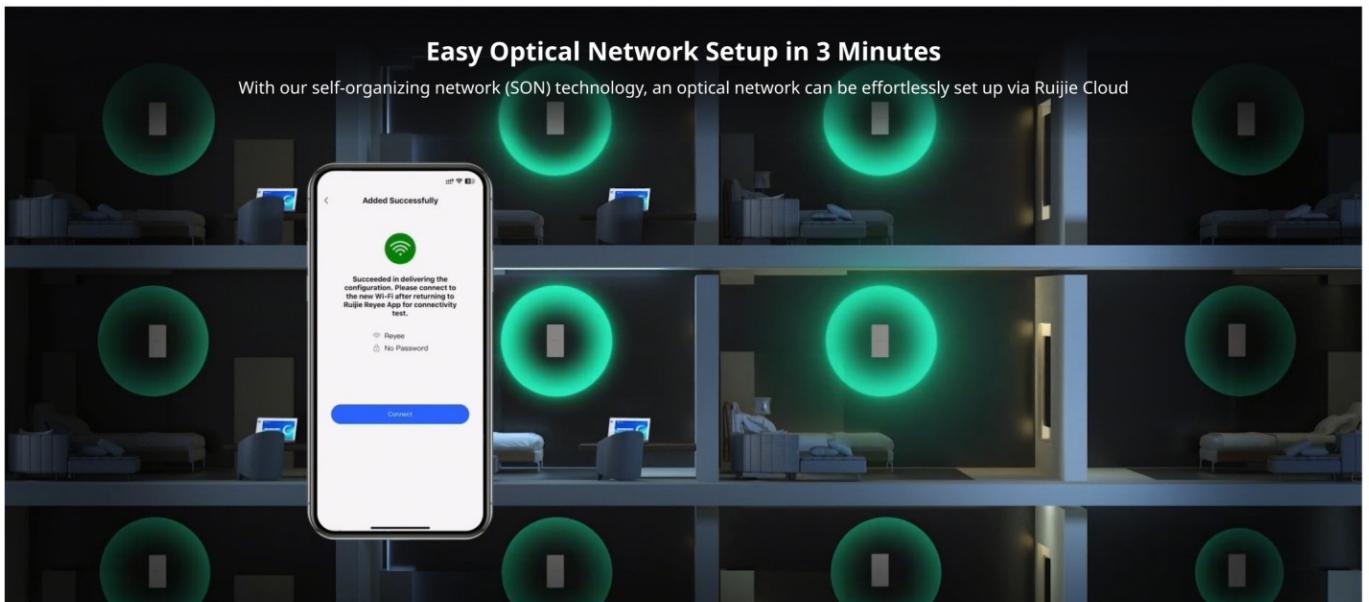
AI Roaming Between Ethernet & e-Lighten APs

Hotel-wide optical network roaming



Easy Optical Network Setup in 3 Minutes

With our self-organizing network (SON) technology, an optical network can be effortlessly set up via Ruijie Cloud

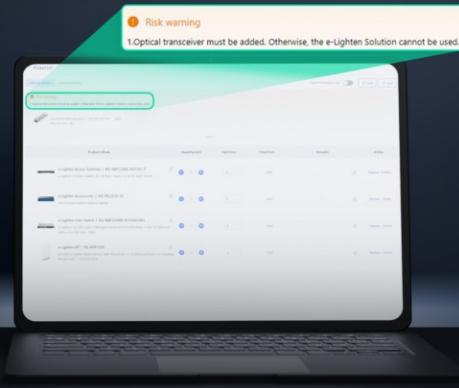


Cloud, Make Your Business Easy

Pre-Sale Deployment Post-Sale

Easy BOM

Automated validation of the e-Lighten BOM for accuracy

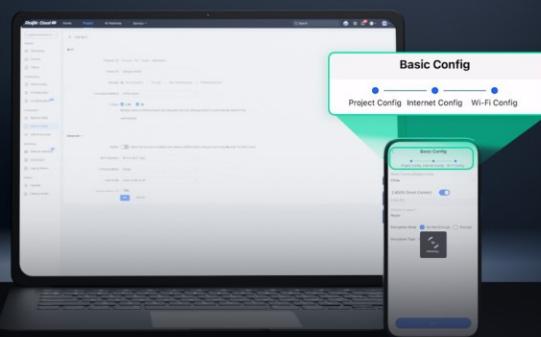


Cloud, Make Your Business Easy

Pre-Sale Deployment Post-Sale

Easy Configuration

Unified configuration of optical networks, Ethernet networks, and telephony systems

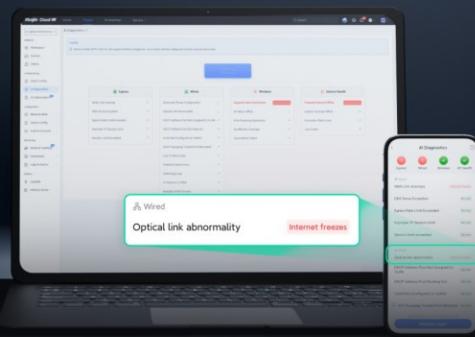


Cloud, Make Your Business Easy

Pre-Sale Deployment Post-Sale

Easy Maintenance

One-click AI troubleshooting to remotely resolve 90% of faults



Product Information

Model	RG-APF1260(MG-P)
Product Type	Wall AP

Hardware Specifications

Model	RG-APF1260(MG-P)
Wi-Fi Radio	
	Frequency bands and maximum Effective Isotropic Radiated Power (EIRP): Note: Country specific restrictions apply. European Union & United Kingdom: 2400–2483.5 MHz, EIRP ≤ 20 dBm 5150–5350 MHz, EIRP ≤ 23 dBm 5470–5725 MHz, EIRP ≤ 30 dBm Myanmar: 2400–2483.5 MHz, EIRP ≤ 23 dBm 5725–5825 MHz, EIRP ≤ 30 dBm Thailand: 2400–2483.5 MHz, EIRP ≤ 20 dBm 5150–5350 MHz, EIRP ≤ 23 dBm 5470–5725 MHz, EIRP ≤ 30 dBm 5725–5825 MHz, EIRP ≤ 30 dBm Indonesia: 2400–2483.5 MHz, EIRP ≤ 27 dBm 5150–5350 MHz, EIRP ≤ 23 dBm 5725–5825 MHz, EIRP ≤ 23 dBm Egypt: 2400–2483.5 MHz, EIRP ≤ 20 dBm 5150–5350 MHz, EIRP ≤ 23 dBm Vietnam: 2400–2483.5 MHz, EIRP ≤ 23 dBm 5150–5350 MHz, EIRP ≤ 23 dBm 5470–5725 MHz, EIRP ≤ 30 dBm 5725–5850 MHz, EIRP ≤ 30 dBm
Maximum transmit power	Wi-Fi 4 (IEEE 802.11b/g/n) Wi-Fi 6 (IEEE 802.11ax)
2.4 GHz Wi-Fi	Wi-Fi 4 (IEEE 802.11a/n) Wi-Fi 5 (IEEE 802.11ac) Wi-Fi 6 (IEEE 802.11ax)
5 GHz Wi-Fi	Dual-radio 4 spatial streams and 5 radio streams
Radio design	

Hardware Specifications

Model	RG-APF1260(MG-P)
	<ul style="list-style-type: none"> • 2.4 GHz: 2 x 2, MIMO • 5 GHz: 2 x 2, MIMO
Operating band	<p>IEEE 802.11b/g/n/ax, 2.400 GHz to 2.4835 GHz IEEE 802.11a/n/ac/ax, 5.150 GHz to 5.350 GHz, 5.470 GHz to 5.725 GHz, 5.725 GHz to 5.850 GHz</p> <p>Note: Available bands vary with countries and regions. To use the preceding frequency bands, ensure that your country or region supports these frequency bands.</p>
Coverage range	<p>55 m² (592.02 square ft.)</p> <p>Note: The data is obtained in an ideal environment without obstruction. The signal coverage radius depends on client performance and environmental interference.</p>
Highest QAM order	1024
Maximum wireless data rate	2976 Mbps
2.4 GHz wireless data rate	574 Mbps
5 GHz wireless data rate	2402 Mbps
2.4 GHz channel width	Auto/20/40 MHz
5 GHz channel width	Auto/20/40/80/160 MHz
eFEM	No
Maximum transmit power (2.4 GHz)	<p>Combined power: 24 dBm (single-stream power: 18 dBm)</p> <p>Note: The transmit power varies according to regulations in different countries and regions.</p>
Maximum transmit power (5 GHz)	<p>Combined power: 24 dBm (single-stream power: 18 dBm)</p> <p>Note: The transmit power varies according to regulations in different countries and regions.</p>
Receive sensitivity	<p>11b: -91 dBm (1 Mbps), -88 dBm (5.5 Mbps), -85 dBm (11 Mbps)</p> <p>11a/g: -89 dBm (6 Mbps), -80 dBm (24 Mbps), -76 dBm (36 Mbps), -71 dBm (54 Mbps)</p> <p>11n: -85 dBm (MCS0), -65 dBm (MCS7), -85 dBm (MCS8), -65 dBm (MCS15)</p> <p>11ac: 20 MHz: -85 dBm (MCS0), -60 dBm (MCS9)</p> <p>11ac: 40 MHz: -82 dBm (MCS0), -57 dBm (MCS9)</p> <p>11ac: 80 MHz: -79 dBm (MCS0), -54 dBm (MCS9)</p> <p>11ac: 160 MHz: -76 dBm (MCS0), -51 dBm (MCS9)</p> <p>11ax: 20 MHz: -85 dBm (MCS0), -58 dBm (MCS11)</p> <p>11ax: 40 MHz: -82 dBm (MCS0), -55 dBm (MCS11)</p>

Hardware Specifications

Model	RG-APF1260(MG-P)
	11ax: 80 MHz: -79 dBm (MCS0), -52 dBm (MCS11) 11ax: 160 MHz: -76 dBm (MCS0), -49 dBm (MCS11)
Antenna	
Antenna	2.4 GHz: 2 built-in omnidirectional antennas 5 GHz: 3 built-in omnidirectional antennas
Antenna gain (2.4 GHz)	4.14 dBi
Antenna gain (5 GHz)	6.26 dBi
Dimensions and Weight	
Product dimensions (W x D x H)	180 mm x 86 mm x 34.5 mm (7.09 in. x 3.39 in. x 1.36 in.) (excluding the mounting bracket)
Weight	0.34 kg (0.75 lbs) (without packaging materials)
Power Supply and Consumption	
Power supply	<ul style="list-style-type: none"> • DC power adapter • PoF <p>Note: No power option is preferred over the others.</p>
Maximum power consumption	<p>PoF power supply: 23 W DC power supply: 26 W</p>
Dimensions of the DC connector	<p>Outer diameter: 5.5 mm (0.22 in.) Inner diameter: 2.1 mm (0.08 in.) Depth: 10 mm (0.39 in.)</p>
Power supply to external devices	<p>Yes</p> <ul style="list-style-type: none"> • The Ethernet interface provides external power supply of 54 V/12.95 W.
PoE power pins	No
Environment and Reliability	
IP rating	IP41
Mounting options	Wall
Operating temperature	0°C to 40°C (32°F to 104°F)
Storage temperature	-40°C to +70°C (-40°F to +158°F)
Operating humidity	5% RH to 95% RH (non-condensing)
Storage humidity	5% RH to 95% RH (non-condensing)

Hardware Specifications

Model	RG-APF1260(MG-P)
Surge protection	Ethernet port: ± 2 kV for common mode VoIP port: ± 1.5 kV for common mode
Cooling	Natural cooling
Altitude	Operating altitude: 0 m to 5,000 m (0 ft. to +16,404.20 ft.) Storage altitude: -500 m to +5,000 m (-1,640.42 ft. to +16,404.20 ft.)
MTBF	250,000 hours
Certification and Regulatory Compliance	
EMC	EN 55032 EN 55035 EN 301489-1 EN 301489-3 EN 301489-17 EN 61000-3-3 EN IEC 61000-3-2
Safety compliance	IEC 62368-1
Certification	CE, CB
Port Specifications	
Ethernet cable type	CAT5 CAT5e CAT6 CAT6a CAT7 CAT7a
Reset button	1
LEDs	1 x system status LED 1 x SC port LED
Number of uplink optical ports	1
Maximum transmission rate of uplink optical ports	2.5 Gbps
Number of 10/100/1000BASE-T ports	4
Total number of optical ports	1
System Specifications	
Flash memory	128 MB

Hardware Specifications

Model	RG-APF1260(MG-P)
RAM	512 MB DDR3

Software Specifications

Model	RG-APF1260(MG-P)
Interface	
Number of default WAN ports	1
Number of default LAN/WAN ports	No
Number of default LAN ports	4
IPTV transparent transmission	Yes
WLAN	
Maximum number of associated wireless clients	64 (2.4 GHz) 256 (5 GHz) 256 (2.4 GHz and 5 GHz enabled)
Recommended number of associated wireless clients	<ul style="list-style-type: none"> ● Support for IEEE 802.11ax and 160 MHz: 16 (2.4 GHz) 60 (5 GHz) 76 (2.4 GHz and 5 GHz enabled) ● Support for IEEE 802.11ax and 80 MHz: 12 (2.4 GHz) 52 (5 GHz) 64 (2.4 GHz and 5 GHz enabled) ● Support for IEEE 802.11ac: 8 (2.4 GHz) 32 (5 GHz) 40 (2.4 GHz and 5 GHz enabled)
Maximum number of SSIDs	8
AP Mesh	Yes
Maximum number of APs supported by AP Mesh networking	16
Maximum number of AP groups	8
Maximum number of devices that can be managed	300
Forcibly disconnecting clients with low-weak signals	Yes
AP load balancing	Yes
OFDMA	Yes
WMM	Yes

Software Specifications

Model	RG-APF1260(MG-P)
Beamforming	Yes
AP management	Yes
Wireless Intelligent Optimization (WIO)	Yes
Layer 2 roaming	Yes
Layer 3 roaming	Yes
AI roaming	Yes
802.11k/v roaming	Yes
Fast transition (802.11r)	Yes
802.1X authentication	Yes
AP portal authentication	Yes
Link authentication	Yes
Access authentication	Yes
Encryption mode (WPA-PSK, WPA2-PSK, WPA/WPA2-PSK)	Yes
OWE (Enhanced Open)	
WPA3-SAE	Yes
WPA2-PSK/WPA3-SAE	
Key negotiation mechanism	Yes
Compatibility with RGOS encryption mode	Yes
Global blocklist and allowlist	Yes
Number of global blocklists/allowlists	256
Number of global blocklists and allowlists based on OUIs	256
Number of blocklists and allowlists based on MAC addresses (single SSID)	256
WQoS	Yes

Software Specifications

Model	RG-APF1260(MG-P)
Forwarding mode	Yes
Different SSIDs for different VLANs	Yes
Different SSIDs for different APs	Yes
Power settings	Yes
User isolation	Yes
Automatic adjustment of the channel, transmit power, and channel width	Yes
Roaming sensitivity	Yes
WLAN client disconnection log	Yes
Access RSSI threshold	Yes
Maximum number of APs that can be optimized	50
Recommended number of connected wireless clients	76
Recommended number of connected wireless clients (2.4 GHz)	16
Recommended number of connected wireless clients (5 GHz)	60
Network Management and Monitoring	
AP group	Yes
SNMPv1, v2c, and v3	Yes
eWeb management	Yes
Ruijie Reyee App management	Yes
Ruijie Cloud management	Yes
Network self-check	Yes
Client logs	Yes
Radio logs	Yes

Software Specifications

Model	RG-APF1260(MG-P)
Syslog	Yes
Log storage	Yes
TFTP client (IPv4 address)	Yes
FTP client (IPv4 address)	Yes
NTP client	Yes
Restarting devices through Ruijie Reyee App	Yes
Network-wide scheduled restart	Yes
HTTP login	Yes
HTTPS login	Yes
SNTP	Yes
Fault diagnosis	Yes
IP Service	
IPTV	Yes
Screen mirroring	Yes
IPv6	Yes
IPv6 ping	Yes
IPv6 traceroute	Yes
Maximum number of ARP entries	1024
DNS client	Yes
Static/Dynamic NAT	Yes
Static/Dynamic NAPT	Yes
ARP binding	Yes
IPv4 ping	Yes

Software Specifications

Model	RG-APF1260(MG-P)
DHCP server	Yes
DHCP client	Yes
Basic Configurations	
AP mode	Yes
eWeb login with the username and password	Yes
Routing mode	Yes
Internet access mode	Static IP address Static IPv6 address Dynamic IP address Dynamic IPv6 address PPPoE
Local upgrade	Yes
Online upgrade	Yes
Configuration backup	Yes
Restoring factory defaults	Yes
Authentication	
IPv4 Ruijie SMP/ESS authentication	Yes
SMS-based authentication	Yes
AAA authentication	Yes
Security	
WPA-Enterprise	
WPA2-Enterprise	Yes
WPA/WPA2-Enterprise	
Ethernet Switching	
IEEE 802.1Q VLAN	Yes
VLAN configuration supported on LAN ports	Yes
Maximum number of VLANs	8

Software Specifications

Model	RG-APF1260(MG-P)
Gateway Features	
Smart DNS proxy	Yes
Ethernet Interface	
Avoiding IP address conflicts on WAN interfaces	Yes

Package Contents

Model	RG-APF1260(MG-P)
Device	
Device	1
Accessories	
Power cord	No
PoE injector	No
Power adapter	No Note: The power adapter (DC 54 V/1.21 A) is optional.
Mounting bracket	1 (80.31 mm x 3.8 mm x 121.5 mm, or 3.16 in. x 0.15 in. x 4.78 in.)
Rack-mount bracket	No
Screw	2 x Machine screws (M4 x 40 mm) 2 x Machine screws (M3.5 x 30 mm) 2 x Tapping screws (ST3 x 30 mm)
Manual	
Warranty Card	1
User Manual	1



Ruijie Networks Co., Ltd.

For more information, visit www.ruijie.com or call 86-400-620-8818.