

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



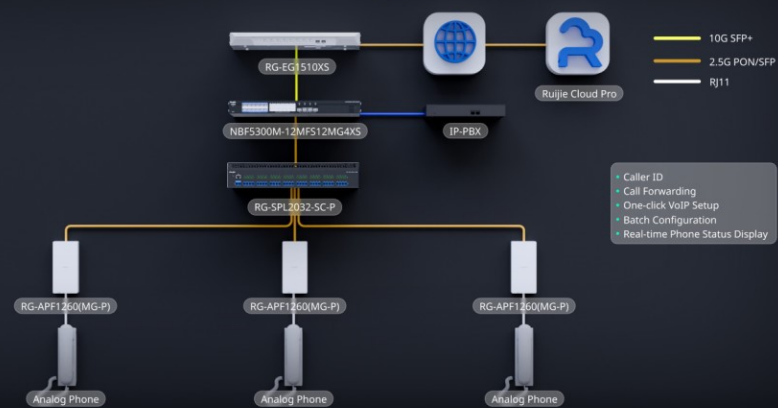
Triple-Play Services, Effortless Wiring

One optical cable carrying network, IPTV, and telephone services



Smart Saving, Smarter Telephony

Bring IP phone features to your analog phones



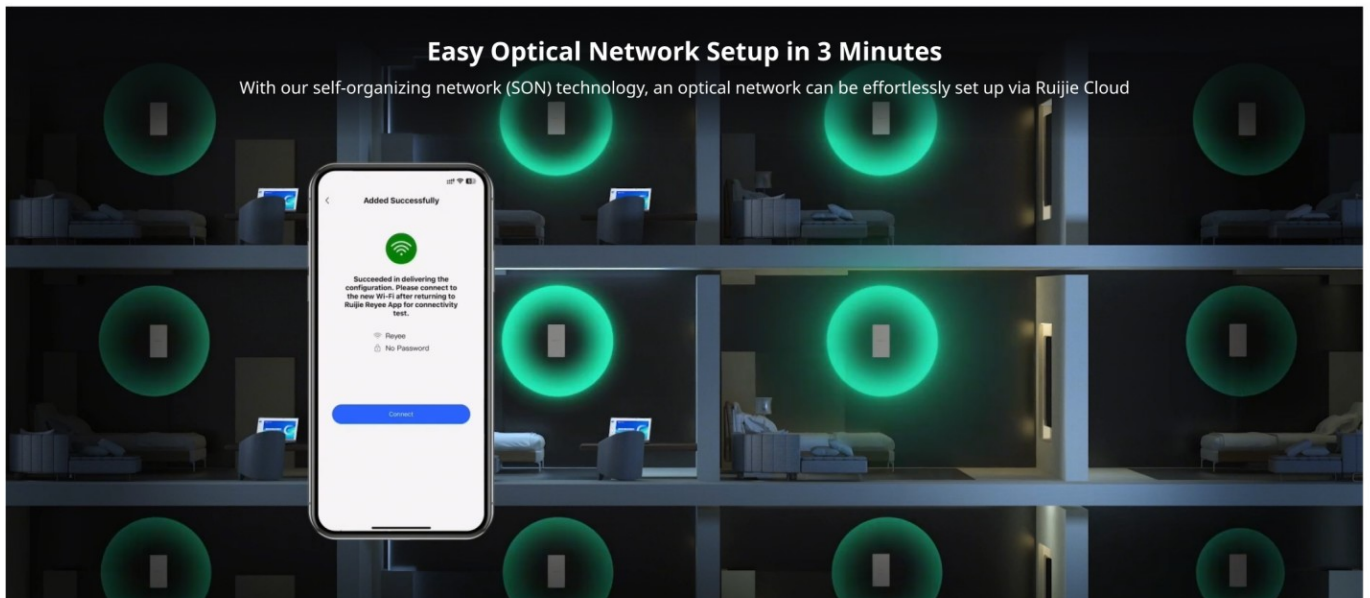
AI Roaming Between Ethernet & e-Lighten APs

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

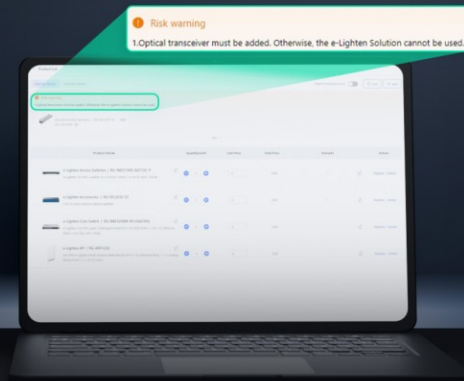
Pre-Sale

Deployment

Post-Sale

Easy BOM

Automated validation of the e-Lighten BOM for accuracy



Cloud, Make Your Business Easy

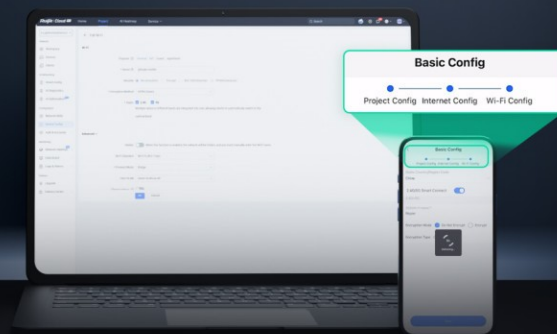
Pre-Sale

Deployment

Post-Sale

Easy Configuration

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



Cloud, Make Your Business Easy

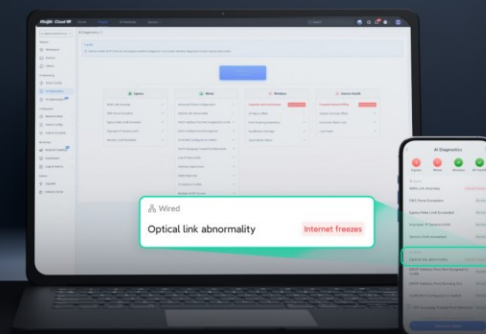
Pre-Sale

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

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 Note: No power option is preferred over the others. |
| Maximum power consumption | PoF power supply: 23 W DC power supply: 26 W |
| Dimensions of the DC connector | Outer diameter: 5.5 mm (0.22 in.) Inner diameter: 2.1 mm (0.08 in.) Depth: 10 mm (0.39 in.) |
| Power supply to external devices | Yes <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 WPA2-PSK/WPA3-SAE | Yes |
| 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 Rejee 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 WPA/WPA2-Enterprise | Yes |
| 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



Ruijie Networks Co., Ltd.

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