

## RG-APF2260(MG)

### AX3000 e-Lighten Multi-Service Ceiling Mount AP



#### **/ Highlights**

- Passive/Active Optical Networking Support
- Wi-Fi 6, AX3000
- Ultra-Slim Design: Blends into the Environment and Is Easy to Install
- Support for Seamless Roaming with RG-RAP Series
- AI Heatmap & AI BOM, Ensuring Easy Deployment
- Unified Cloud Management

# RG-APF2260(MG)

e-Lighten 2.0 Ultra-Slim Wi-Fi 6 Ceiling Mount AP

1 x RJ45 (PoE In) Port

1 x DC Power Connector

1 x PoF In Port

1 x 2.5G SC Optical Port



## Wi-Fi 6 Optical Wall Mount AP

Experience Wi-Fi 6 AX3000



Elegant Appearance with Ultra-Slim Body

RG-APF2260(mg) - 35 mm (1.38 in.)



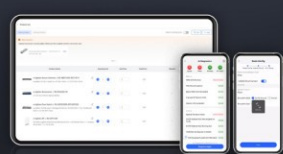
AI Roaming Between Ethernet & e-Lighten APs



Easy Optical Network Setup



All-in-One Cloud



## The Thin You Crave, The Taste You Love

Ultra-Slim Design: Blends into the Environment and Is Easy to Install



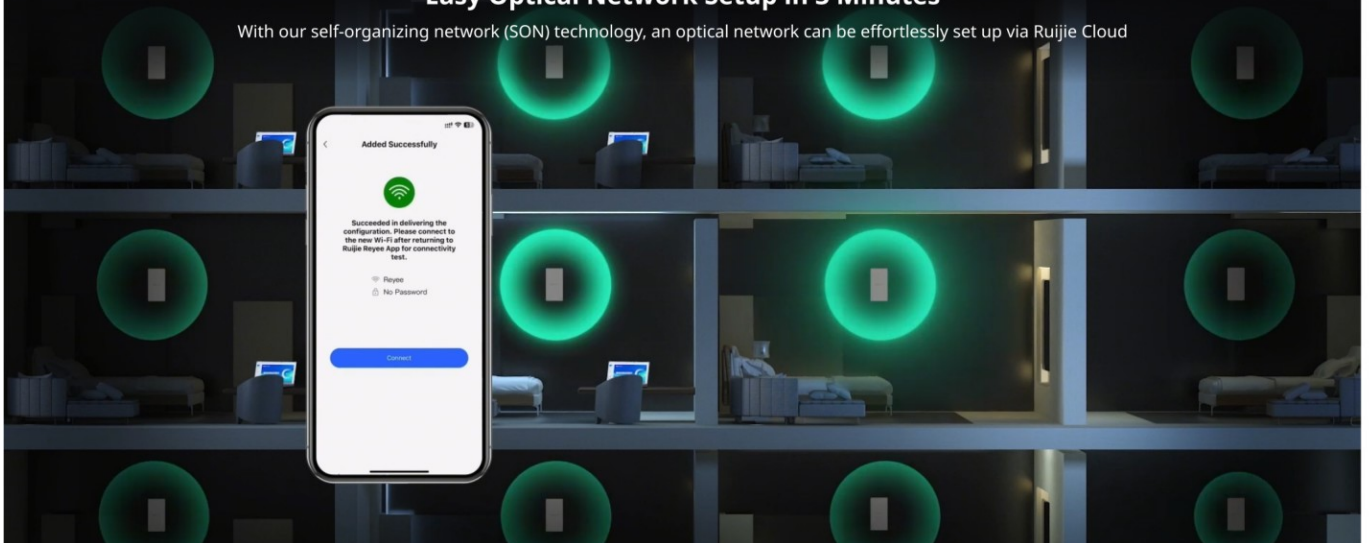
## AI Roaming Between Ethernet & e-Lighten APs

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

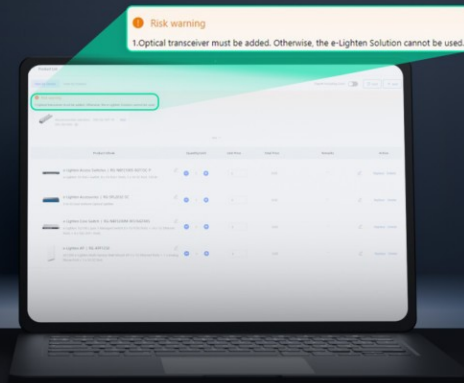


## Cloud, Make Your Business Easy

Pre-Sale Deployment Post-Sale

### Easy BOM

Automated validation of the e-Lighten BOM for accuracy

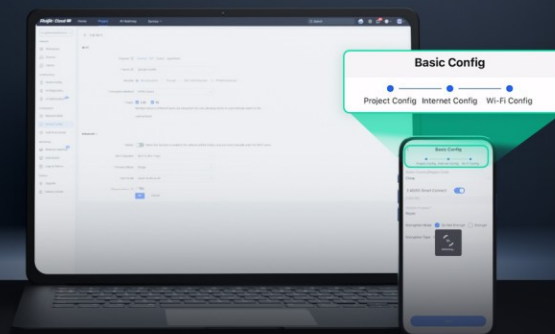


## Cloud, Make Your Business Easy

Pre-Sale Deployment Post-Sale

### Easy Configuration

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

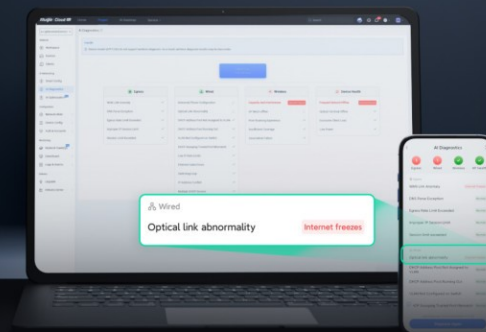


## Cloud, Make Your Business Easy

Pre-Sale Deployment Post-Sale

### Easy Maintenance

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



## Product Information

<b>Model</b>	<b>RG-APF2260(MG)</b>
<b>Product Type</b>	Ceiling AP

## Hardware Specifications

<b>Model</b>	<b>RG-APF2260(MG)</b>
<b>Wi-Fi Radio</b>	
<b>Maximum transmit power</b>	<p>Frequency bands and maximum Effective Isotropic Radiated Power (EIRP):</p> <p>Note: Country specific restrictions apply.</p> <p>European Union &amp; United Kingdom:            2400–2483.5 MHz, EIRP ≤ 20 dBm            5150–5350 MHz, EIRP ≤ 23 dBm            5470–5725 MHz, EIRP ≤ 30 dBm</p> <p>Myanmar:            2400–2483.5 MHz, EIRP ≤ 23 dBm            5725–5825 MHz, EIRP ≤ 30 dBm</p> <p>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</p> <p>Indonesia:            2400–2483.5 MHz, EIRP ≤ 27 dBm            5150–5350 MHz, EIRP ≤ 23 dBm            5725–5825 MHz, EIRP ≤ 23 dBm</p> <p>Egypt:            2400–2483.5 MHz, EIRP ≤ 20 dBm            5150–5350 MHz, EIRP ≤ 23 dBm</p> <p>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</p>
<b>2.4 GHz Wi-Fi</b>	Wi-Fi 4 (IEEE 802.11b/g/n) Wi-Fi 6 (IEEE 802.11ax)
<b>5 GHz Wi-Fi</b>	Wi-Fi 4 (IEEE 802.11a/n) Wi-Fi 5 (IEEE 802.11ac) Wi-Fi 6 (IEEE 802.11ax)
<b>Radio design</b>	Dual-radio 4 spatial streams and 5 radio streams

# Hardware Specifications

Model	RG-APF2260(MG)
	<ul style="list-style-type: none"> <li>• 2.4 GHz: 2 x 2, MIMO</li> <li>• 5 GHz: 2 x 2, MIMO</li> </ul>
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>145 m<sup>2</sup> (1560.77 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	Yes
Maximum transmit power (2.4 GHz)	<p>Combined power: 28 dBm (single-stream power: 25 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: 28 dBm (single-stream power: 25 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), -90 dBm (5.5 Mbps), -87 dBm (11 Mbps)</p> <p>11a/g: -89 dBm (6 Mbps), -82 dBm (24 Mbps), -78 dBm (36 Mbps), -72 dBm (54 Mbps)</p> <p>11n: -85 dBm (MCS0), -67 dBm (MCS7), -62 dBm (MCS8)</p> <p>11ac: 20 MHz: -85 dBm (MCS0), -62 dBm (MCS8)</p> <p>11ac: 40 MHz: -82 dBm (MCS0), -59 dBm (MCS8)</p> <p>11ac: 80 MHz: -79 dBm (MCS0), -53 dBm (MCS9)</p> <p>11ac: 160 MHz: -76 dBm (MCS0), -50 dBm (MCS9)</p> <p>11ax: 20 MHz: -85 dBm (MCS0), -62 dBm (MCS8), -58 dBm (MCS11)</p> <p>11ax: 40 MHz: -82 dBm (MCS0), -59 dBm (MCS8), -54 dBm</p>

# Hardware Specifications

Model	RG-APF2260(MG)
	(MCS11) 11ax: 80 MHz: -79 dBm (MCS0), -53 dBm (MCS9), -52 dBm (MCS11) 11ax: 160 MHz: -76 dBm (MCS0), -49 dBm (MCS11)
<b>Antenna</b>	
Antenna	2.4 GHz: 2 built-in omnidirectional antennas 5 GHz: 3 built-in omnidirectional antennas
Antenna gain (2.4 GHz)	2.91 dBi
Antenna gain (5 GHz)	4.00 dBi
<b>Dimensions and Weight</b>	
Product dimensions (diameter x height)	Ø230 mm x 35 mm (Ø9.06 in. x 1.38 in.) (spherical device, excluding the mounting bracket)
Weight	0.36 kg (0.79 lbs) (without packaging materials)
<b>Power Supply and Consumption</b>	
Power supply	<ul style="list-style-type: none"> <li>• DC power adapter</li> <li>• PoE/PoE+</li> <li>• PoF</li> </ul> Note: No power option is preferred over the others.
Maximum power consumption	18 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	No
PoE power pins	For APs, auto-negotiation is supported. That is, an AP can be powered either over power cable pairs 1-2 and 3-6 or pairs 4-5 and 7-8.
<b>Environment and Reliability</b>	
IP rating	IP41
Mounting options	Ceiling/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)

# Hardware Specifications

Model	RG-APF2260(MG)
Storage humidity	5% RH to 95% RH (non-condensing)
Surge protection	Ethernet port: $\pm 2$ 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	400,000 hours
<b>Certification and Regulatory Compliance</b>	
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
<b>Port Specifications</b>	
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	1
Number of 1000BASE-T PoE ports (PoE In)	1
Total number of optical ports	1

# Hardware Specifications

Model	RG-APF2260(MG)
<b>System Specifications</b>	
Flash memory	128 MB
RAM	512 MB DDR3

# Software Specifications

Model	RG-APF2260(MG)
<b>Interface</b>	
Number of default WAN ports	1
Number of default LAN/WAN ports	1
Number of default LAN ports	1
IPTV transparent transmission	No
<b>WLAN</b>	
Maximum number of associated wireless clients	64 (2.4 GHz) 512 (5 GHz) 512 (2.4 GHz and 5 GHz enabled)
Recommended number of associated wireless clients	<ul style="list-style-type: none"> <li>● Support for IEEE 802.11ax and 160 MHz: 16 (2.4 GHz) 94 (5 GHz) 110 (2.4 GHz and 5 GHz enabled)</li> <li>● Support for IEEE 802.11ax and 80 MHz: 16 (2.4 GHz) 84 (5 GHz) 100 (2.4 GHz and 5 GHz enabled) <ul style="list-style-type: none"> <li>● Support for IEEE 802.11ac: 16 (2.4 GHz) 64 (5 GHz)</li> </ul> </li> </ul> 80 (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-APF2260(MG)
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-APF2260(MG)
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	110
Recommended number of connected wireless clients (2.4 GHz)	16
Recommended number of connected wireless clients (5 GHz)	94
<b>Network Management and Monitoring</b>	
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-APF2260(MG)
Syslog	Yes
Log storage	Yes
TFTP client (IPv4 address)	Yes
FTP client (IPv4 address)	Yes
NTP client	Yes
Restarting devices through Ruijie Reye App	Yes
Network-wide scheduled restart	Yes
HTTP login	Yes
HTTPS login	Yes
SNTP	Yes
Fault diagnosis	Yes
<b>IP Service</b>	
IPTV	No
Screen mirroring	No
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-APF2260(MG)
DHCP server	Yes
DHCP client	Yes
<b>Basic Configurations</b>	
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
<b>Authentication</b>	
IPv4 Ruijie SMP/ESS authentication	Yes
SMS-based authentication	Yes
AAA authentication	Yes
<b>Security</b>	
WPA-Enterprise WPA2-Enterprise WPA/WPA2-Enterprise	Yes
<b>Ethernet Switching</b>	
IEEE 802.1Q VLAN	Yes
VLAN configuration supported on LAN ports	Yes
Maximum number of VLANs	8

# Software Specifications

Model	RG-APF2260(MG)
<b>Gateway Features</b>	
Smart DNS proxy	Yes
<b>Ethernet Interface</b>	
Avoiding IP address conflicts on WAN interfaces	Yes

# Package Contents

Model	RG-APF2260(MG)
<b>Device</b>	
Device	1
<b>Accessories</b>	
Power cord	No
PoE injector	No
Power adapter	No Note: The power adapter (DC 12 V/2 A) is optional.
Mounting bracket	1 (82 mm x 88 mm x 6.5 mm, or 3.23 in. x 3.46 in. x 0.26 in.)
Rack-mount bracket	No
Screw	2 x Cross pan head screw (ST4.2 x 25 mm) 2 x Plastic expansion anchor ( $\phi$ 6.3 x 25 mm)
<b>Manual</b>	
Warranty Card	1
User Manual	1

***Ruijie***



**Ruijie Networks Co., Ltd.**

For more information, visit [www.ruijie.com](http://www.ruijie.com) or call 86-400-620-8818.