

# RG-APF1250

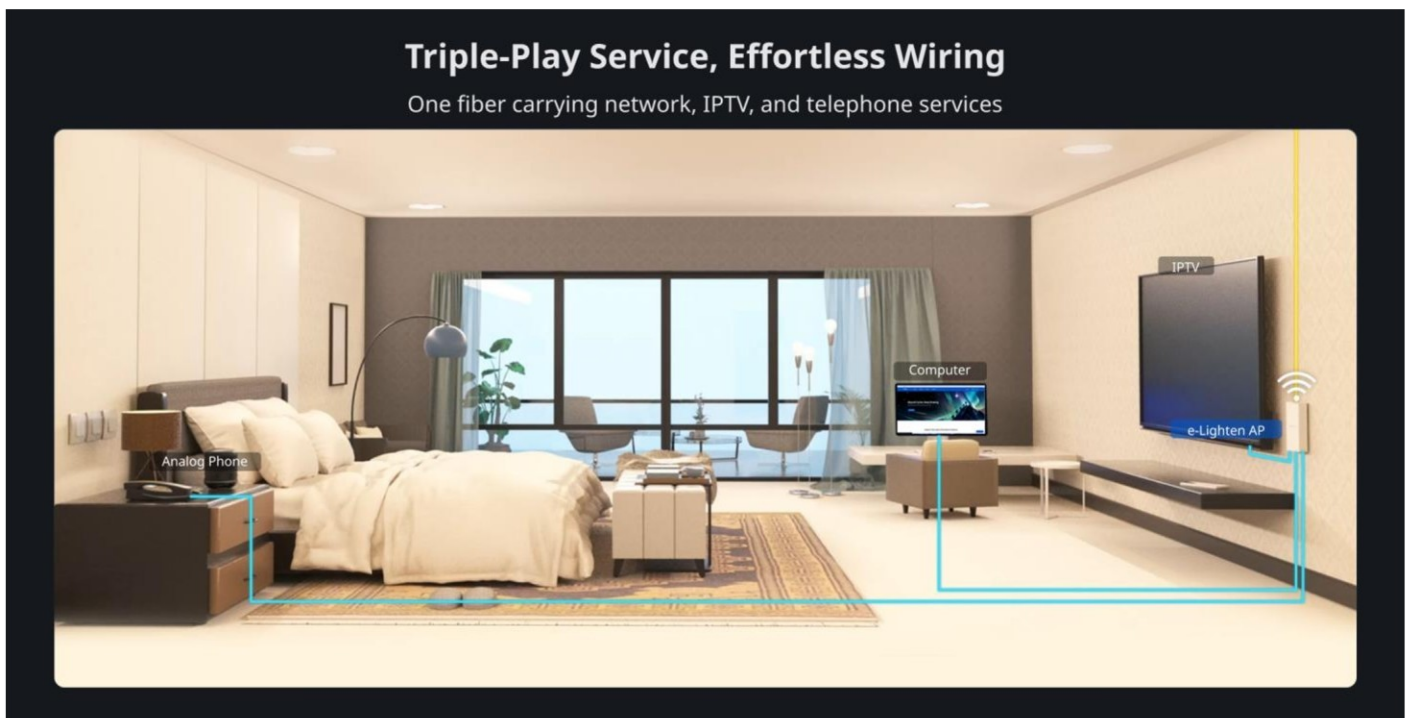
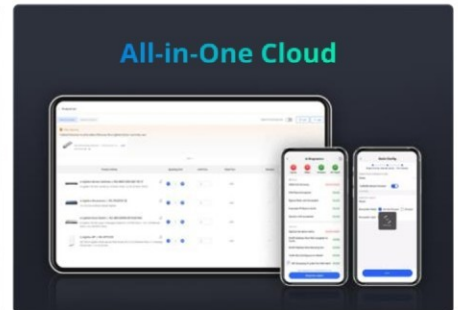
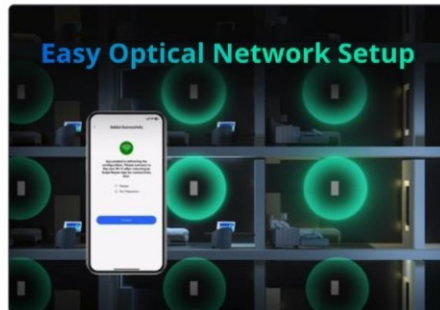
## AC1200 e-Lighten Multi-Service Wall-Mount AP



### Highlights

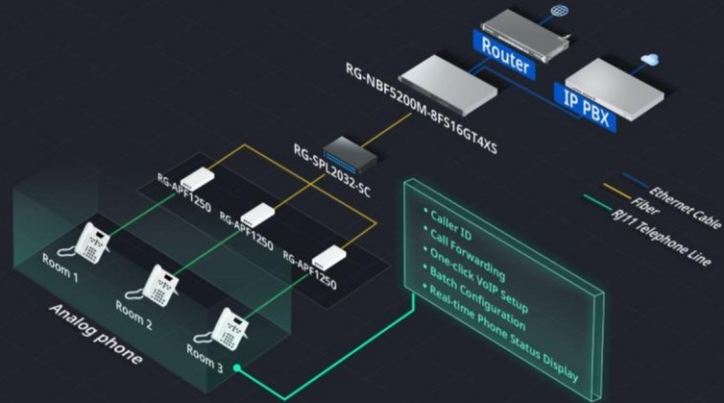
- Passive Optical Networking Support
- Integrating Phone, IPTV, and Wi-Fi Services
- Wi-Fi 5, AC1200
- AI Roaming
- Free Cloud Management

# Highlight Features



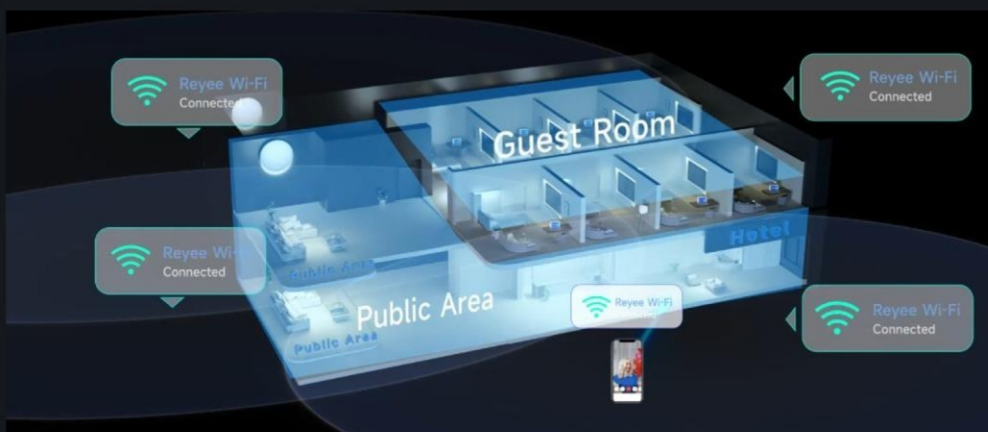
# Highlight Features

## Smart Savings, Smarter Telephony Enjoy IP Phone Experience on Analog Phones



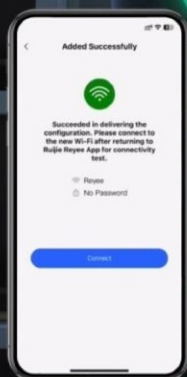
## AI Roaming between Ethernet & e-Lighten APs

Hotel-wide Optical Network Roaming



## Easy Optical Network Setup in 3 Minutes

With our Self-Organizing Networking (SON) technology, an optical network can be effortlessly set up via Ruijie Cloud.





## Product Information

Model	RG-APF1250
Product Type	Wall AP

## Hardware Specifications

Model	RG-APF1250
<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)
<b>5 GHz Wi-Fi</b>	Wi-Fi 4 (IEEE 802.11a/n) Wi-Fi 5 (IEEE 802.11ac )
<b>Radio design</b>	Dual-radio 4 spatial streams and 4 radio streams

# Hardware Specifications

Model	RG-APF1250
	<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, 2.400 GHz to 2.4835 GHz            IEEE 802.11a/n/ac, 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>30 m<sup>2</sup> (322.92 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	256
Maximum wireless data rate	1167 Mbps
2.4 GHz wireless data rate	300 Mbps
5 GHz wireless data rate	867 Mbps
2.4 GHz channel width	Auto/20/40 MHz
5 GHz channel width	Auto/20/40/80 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 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: -83 dBm (MCS0), -65 dBm (MCS7), -83 dBm (MCS8), -65 dBm (MCS15)</p> <p>11ac HT20: -83 dBm (MCS0), -57 dBm (MCS9)</p> <p>11ac HT40: -79 dBm (MCS0), -57 dBm (MCS9)</p> <p>11ac HT80: -76 dBm (MCS0), -51 dBm (MCS9)</p>
<b>Antenna</b>	
Antenna	<p>2.4 GHz: 2 built-in omnidirectional antennas</p> <p>5 GHz: 2 built-in omnidirectional antennas</p>

# Hardware Specifications

Model	RG-APF1250
Antenna gain (2.4 GHz)	2.00 dBi
Antenna gain (5 GHz)	2.00 dBi
<b>Dimensions and Weight</b>	
Product dimensions (W x D x H)	86 mm x 29 mm x 165 mm (3.39 in. x 1.14 in. x 6.50 in.) (excluding the mounting bracket)
Weight	0.21 kg (0.46 lbs) (without packaging materials)
<b>Power Supply and Consumption</b>	
Power supply	DC power adapter
Maximum power consumption	12.95 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	No
<b>Environment and Reliability</b>	
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)
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

# Hardware Specifications

Model	RG-APF1250
<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
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	1 Gbps
Number of 10/100/1000BASE-T ports	3
Total number of optical ports	1
<b>System Specifications</b>	
Flash memory	32 MB
RAM	256 MB DDR3

# Software Specifications

Model	RG-APF1250
<b>Interface</b>	
Number of default WAN ports	1
Number of default LAN/WAN ports	No
Number of default LAN ports	3
IPTV transparent transmission	Yes
<b>WLAN</b>	
Maximum number of associated wireless clients	64 (2.4 GHz) 110 (5 GHz) 110 (2.4 GHz and 5 GHz enabled)
Recommended number of associated wireless clients	8 (2.4 GHz) 24 (5 GHz) 32 (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	150
Forcibly disconnecting clients with low-weak signals	Yes
AP load balancing	No
OFDMA	No
WMM	Yes
Beamforming	Yes
AP management	Yes
Wireless Intelligent Optimization (WIO)	Yes
Layer 2 roaming	Yes

# Software Specifications

Model	RG-APF1250
Layer 3 roaming	No
AI roaming	Yes
802.11k/v roaming	Yes
Fast transition (802.11r)	No
802.1X authentication	No
AP portal authentication	No
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	No
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	No
Number of blocklists and allowlists based on MAC addresses (single SSID)	No
WQoS	No
Forwarding mode	Yes
Different SSIDs for different VLANs	Yes
Different SSIDs for different APs	Yes
Power settings	Yes

# Software Specifications

Model	RG-APF1250
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	No
Recommended number of connected wireless clients	32
Recommended number of connected wireless clients (2.4 GHz)	8
Recommended number of connected wireless clients (5 GHz)	24
<b>Network Management and Monitoring</b>	
AP group	Yes
SNMPv1, v2c, and v3	No
eWeb management	Yes
Ruijie Reyee App management	Yes
Ruijie Cloud management	Yes
Network self-check	Yes
Client logs	Yes
Radio logs	Yes
Syslog	Yes
Log storage	Yes
TFTP client (IPv4 address)	Yes
FTP client (IPv4 address)	Yes

# Software Specifications

Model	RG-APF1250
NTP client	Yes
Restarting devices through Ruijie Reyeer App	Yes
Network-wide scheduled restart	Yes
HTTP login	Yes
HTTPS login	Yes
SNTP	Yes
Fault diagnosis	Yes
<b>IP Service</b>	
IPTV	Yes
Screen mirroring	Yes
IPv6	No
IPv6 ping	No
IPv6 traceroute	No
Maximum number of ARP entries	512
DNS client	Yes
Static/Dynamic NAT	Yes
Static/Dynamic NAPT	Yes
ARP binding	Yes
IPv4 ping	Yes
DHCP server	Yes
DHCP client	Yes
<b>Basic Configurations</b>	
AP mode	Yes

# Software Specifications

Model	RG-APF1250
eWeb login with the username and password	Yes
Routing mode	Yes
Internet access mode	Static IP address Dynamic IP address PPPoE
Local upgrade	Yes
Online upgrade	Yes
Configuration backup	Yes
Restoring factory defaults	Yes
<b>Authentication</b>	
IPv4 Ruijie SMP/ESS authentication	No
SMS-based authentication	No
AAA authentication	No
<b>Security</b>	
WPA-Enterprise WPA2-Enterprise WPA/WPA2-Enterprise	No
<b>Ethernet Switching</b>	
IEEE 802.1Q VLAN	Yes
VLAN configuration supported on LAN ports	Yes
Maximum number of VLANs	8
<b>Gateway Features</b>	
Smart DNS proxy	No
<b>Ethernet Interface</b>	
Avoiding IP address conflicts on WAN interfaces	Yes

## Package Contents

Model	RG-APF1250
<b>Device</b>	
Device	1
<b>Accessories</b>	
Power cord	No
PoE injector	No
Power adapter	1
Mounting bracket	1 (77 mm x 4.2 mm x 100 mm, or 3.03 in. x 0.17 in. x 3.94 in.)
Rack-mount bracket	No
Screw	2 x Cross pan head screw (ST4.2 x 20 mm) 2 x Plastic expansion anchor ( $\phi$ 9 x 25.4 mm)
<b>Manual</b>	
Warranty Card	1
User Manual	1

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Official Website: <https://Reyee.Ruijie.com>