

RG-APF1250

AC1200 e-Lighten Multi-Service Wall-Mount AP

DATASHEET

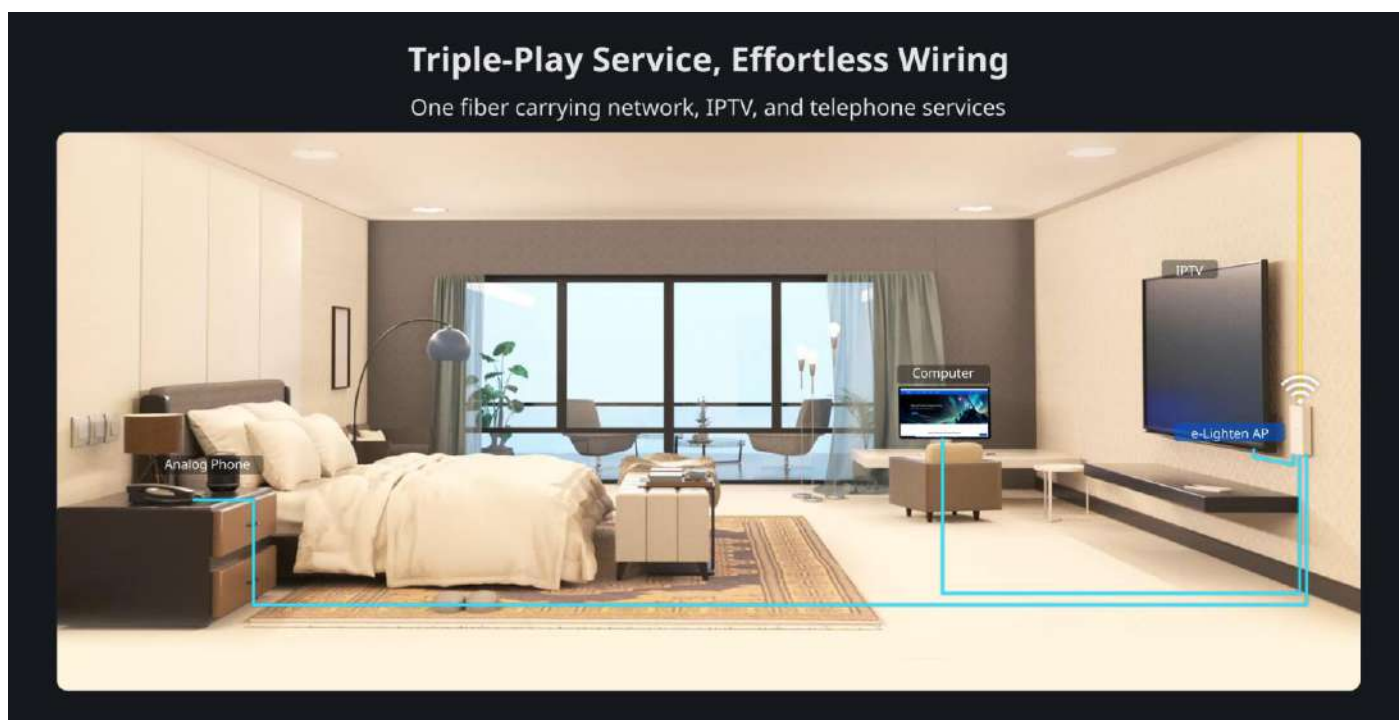
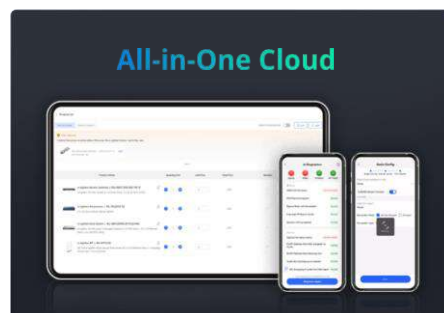
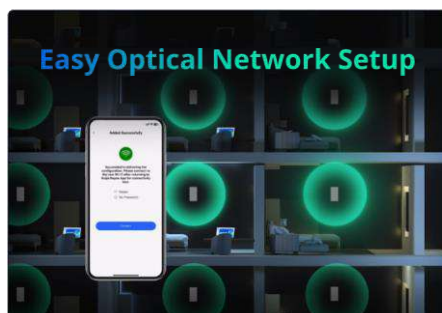
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Highlights

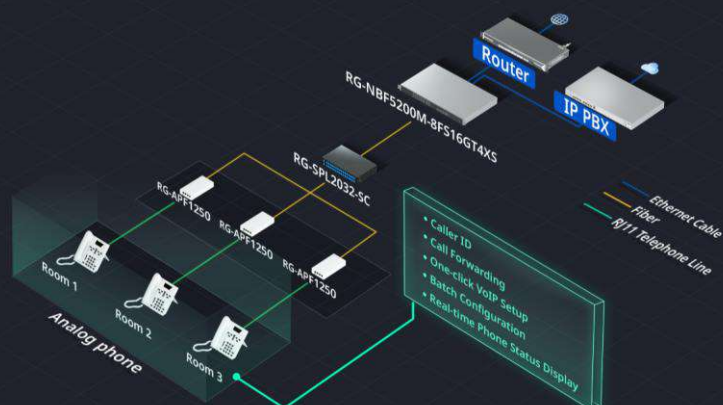
- Passive Optical Networking Support
- Integrating Phone, IPTV, and Wi-Fi Services
- Wi-Fi 5, AC1200
- AI Roaming
- Free Cloud Management

Highlight Features



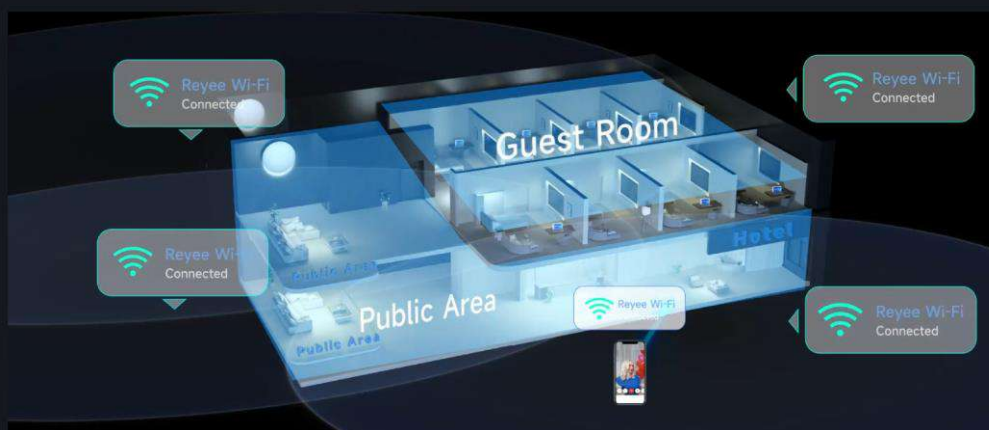
Highlight Features

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



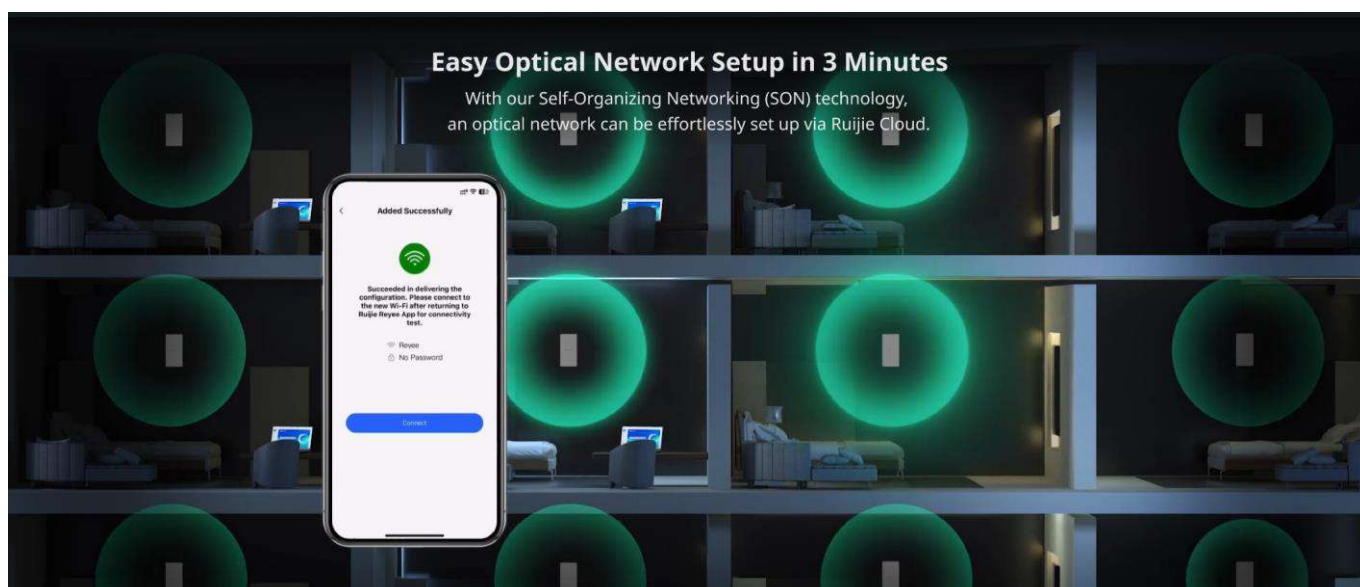
AI Roaming between Ethernet & e-Lighten APs

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.



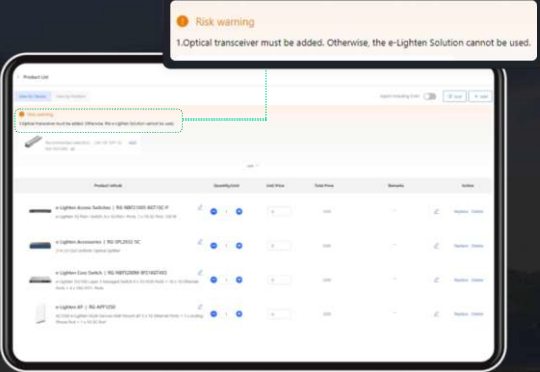
Highlight Features

Cloud, Make Your Business Easy

Pre-Sale Deployment Post-Sale

Easy BOM

Automated validation of the e-Lighten BOM for accuracy



Risk warning
1. Optical transceiver must be added. Otherwise, the e-Lighten Solution cannot be used.

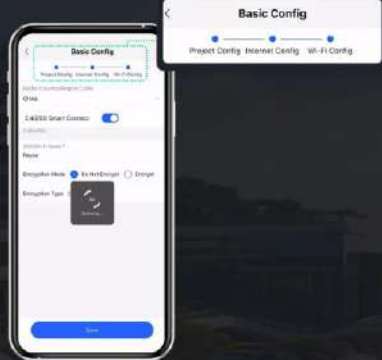
Product Name	Quantity	Unit Price	Total Price	Status	Action
e-Lighten Access Switch (1.6G/10G/25G/40G/100G)	1	\$1,200.00	\$1,200.00	OK	Details
e-Lighten Core Switch (1.6G/10G/25G/40G/100G)	1	\$1,200.00	\$1,200.00	OK	Details
e-Lighten Edge Switch (1.6G/10G/25G/40G/100G)	1	\$1,200.00	\$1,200.00	OK	Details
e-Lighten AP (1.6G/10G/25G/40G/100G)	1	\$1,200.00	\$1,200.00	OK	Details

Cloud, Make Your Business Easy

Pre-Sale Deployment Post-Sale

Easy Configuration

Unified configuration of optical networks, Ethernet and telephony systems



Basic Config
Progress: 100%
Pre-Config, Internet Config, Wi-Fi Config

Basic Config
Pre-Config, Internet Config, Wi-Fi Config

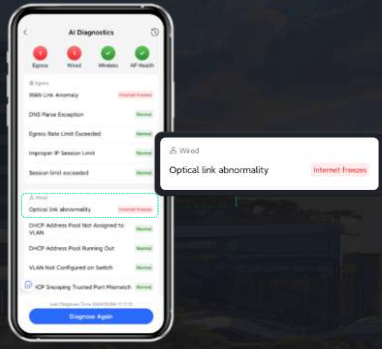
Basic Config
Pre-Config, Internet Config, Wi-Fi Config

Cloud, Make Your Business Easy

Pre-Sale Deployment Post-Sale

Easy Maintenance

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



AI Diagnostics
Optical link abnormality (Critical Fault)
DHCP Address Pool Not Assigned to VLAN (Warning)
DHCP Address Pool Running Out (Warning)
VLAN Not Configured on Switch (Warning)
VLAN Grouping Trunked Port Mismatch (Warning)

Optical link abnormality
Internet freezes

Specifications

Model	RG-APF1250
Product Information	
Product Type	e-Lighten AP
Product Description	Wall-mount dual-band AC1200 wireless optical AP (ONU) with built-in antenna, PON support, white, maximum wireless data rate 1167 Mbps, support IEEE 802.11b/g/n and IEEE 802.11a/n/ac. Manageable via Ruijie Reyee App and Ruijie Cloud. 12V/1.5A local DC power supply, 3 x 10/100/1000BASE-T Ethernet ports, 1 x 1G SC port, and 1 x RJ11 port
Hardware Specifications	
IEEE 802.11ax (Wi-Fi 6)	No
Service Ports	1 x uplink optical port 3 x downlink 10/100/1000BASE-T ports 1 x phone port
Max. Data Rate of Wired Uplink Port	1000 Mbps
Wireless Data Rate	2.4 GHz: 300 Mbps 5 GHz: 867 Mbps Max. Wireless Data Rate: 1167 Mbps
Number of Spacial Streams	2.4 GHz, two spatial streams, 2x2 MIMO 5 GHz, two spatial streams, 2x2 MIMO
Max. Transmit Power	Frequency bands using and the max 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 United States: 2400-2483.5 MHz, max output power ≤ 30 dBm & EIRP ≤ 36 dBm 5150-5250 MHz, max output power ≤ 30 dBm & EIRP ≤ 36 dBm 5250-5350 MHz, max output power < 24 dBm & EIRP ≤ 30 dBm 5470-5725 MHz, max output power < 24 dBm & EIRP ≤ 30 dBm

Model	RG-APF1250
	<p>5725-5825 MHz, max output power ≤ 30dBm & EIRP ≤ 36 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>
2.4 GHz Wi-Fi Protocols	Wi-Fi 4: IEEE 802.11b/g/n
5 GHz Wi-Fi Protocols	<p>Wi-Fi 4: IEEE 802.11a/n</p> <p>Wi-Fi 5: IEEE 802.11ac Wave 2</p>
Operating Frequency Bands	<p>IEEE 802.11b/g/n: 2.400 GHz to 2.4835 GHz</p> <p>IEEE 802.11a/n/ac: 5.150 GHz to 5.350 GHz</p> <p>IEEE 802.11a/n/ac: 5.470 to 5.725 GHz, 5.725 to 5.850 GHz</p> <p>Note: Country-specific restrictions apply.</p>
Antenna Gain	2 dBi
Recommended Wi-Fi Coverage Range	<p>15 m (49.21 ft.)</p> <p>Note: The data is obtained under ideal environment without obstruction. Performance may vary depending on client capabilities and environmental interference.</p>
2.4 GHz Recommended Wi-Fi Coverage Range	<p>15 m (49.21 ft.)</p> <p>Note: The data is obtained under ideal environment without obstruction. Performance may vary depending on client capabilities and environmental interference.</p>

Model	RG-APF1250
5 GHz Recommended Wi-Fi Coverage Range	15 m (49.21 ft.) Note: The data is obtained under ideal environment without obstruction. Performance may vary depending on client capabilities and environmental interference.
IP Rating	IP41
Number of Phone & IPTV Transparent Transmission Ports	0
Power Supply Options	DC: 12 V/1.5 A
Mounting	Wall-mount
Operating Temperature	0°C to 40°C (32°F to 104°F)
Operating Humidity	5% to 95% RH, non-condensing
Reset Button	Yes
LEDs	1 x system LED (hidden); 1 x optical port LED (hidden)
Max. Wireless Data Rate	1167 Mbps
Number of Uplink Optical Port	1
Uplink Optical Port Rate (Gbps)	1
Number of 1000BASE-T Ports	3
Software Features	
Recommended Wireless Client Load	8 (2.4 GHz) + 24 (5 GHz) =32
Number of SSIDs	8
AP Mesh	No
AP Group	Yes
Maximum No. of AP Groups	8

Model	RG-APF1250
IPTV	Yes
TV Projection	Yes
AP Load Balancing	No
Wireless Intelligent Optimization (WIO)	Yes
Layer 2 Roaming	Yes
Layer 3 Roaming	No
802.1X Authentication	No
AP Portal Authentication	No
Max. Number of Blocklists and Allowlists per WLAN	256
Management via Web Interface	Yes
Management via Ruijie Reyee App	Yes
Management via Ruijie Cloud	Yes
Port-based VLAN	Yes
Max. Number of VLANs	8
Recommended Wireless Client Load (2.4 GHz)	8
Recommended Wireless Client Load (5 GHz)	24

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 **Redefine your easy network**

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