

# CPE of RG-AirMetro Series Wireless Bridges for PTMP/PTP

DATASHEET

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## Highlights

- High Performance with Cost-Effectiveness
- One-Touch Pairing
- Easy Site Survey Tool
- Alignment Tool
- Spectrum Scan and Link Optimization
- All in One Cloud Management

## Highlight Features



## RG-AirMetro Series Wireless Bridges

After pairing, the bridges support:

**15 km**

Up to 15 km  
Wireless Transmission

**32 PTMP**

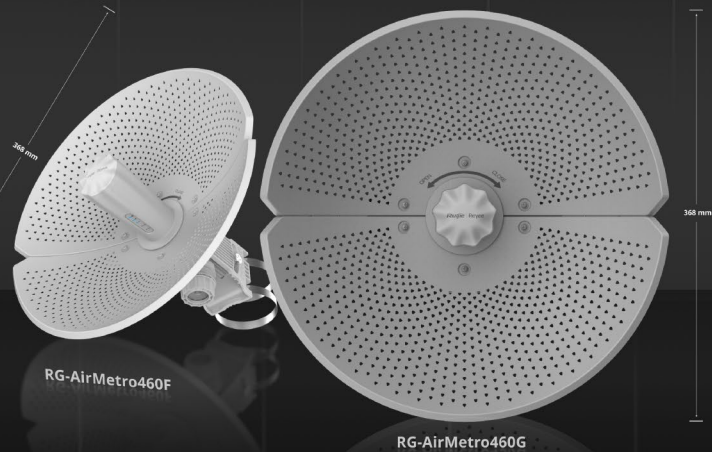
Up to 32 PTMP  
Links



Easy Site Survey  
Tool



All-in-One Cloud  
Management



# Highlight Features

## CPE

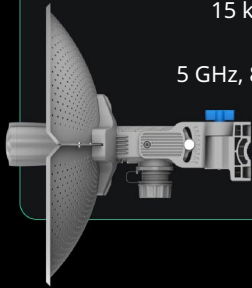
Mix freely for Various Scenarios

### RG-AirMetro460G

1 x 10/100/1000 Mbps Port

15 km, 23 dBi

5 GHz, 867 Mbps

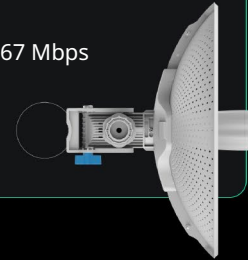


### RG-AirMetro460F

1x 10/100 Mbps Port

15 km, 23 dBi

5 GHz, 867 Mbps



## Signal Enhancement

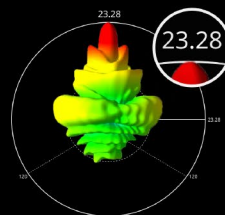
The Secret of Circular Grace

### Compared with Square Antenna:

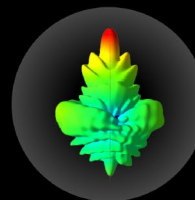
The **total gain** of the circular is **increased**;

The gain in both horizontal and vertical directions is more **balanced**;

Therefore, **under the same coverage area, the signal of the circular antenna is stronger.**



Horizontal: 23.28 dBi



Vertical: 23.19 dBi

Note: All data here are theoretical values obtained by Ruijie Reeye internal laboratories through tests carried out under particular conditions. Actual data may vary owing to differences in individual products, software versions, application conditions, and environmental factors. All data is subject to actual usage.

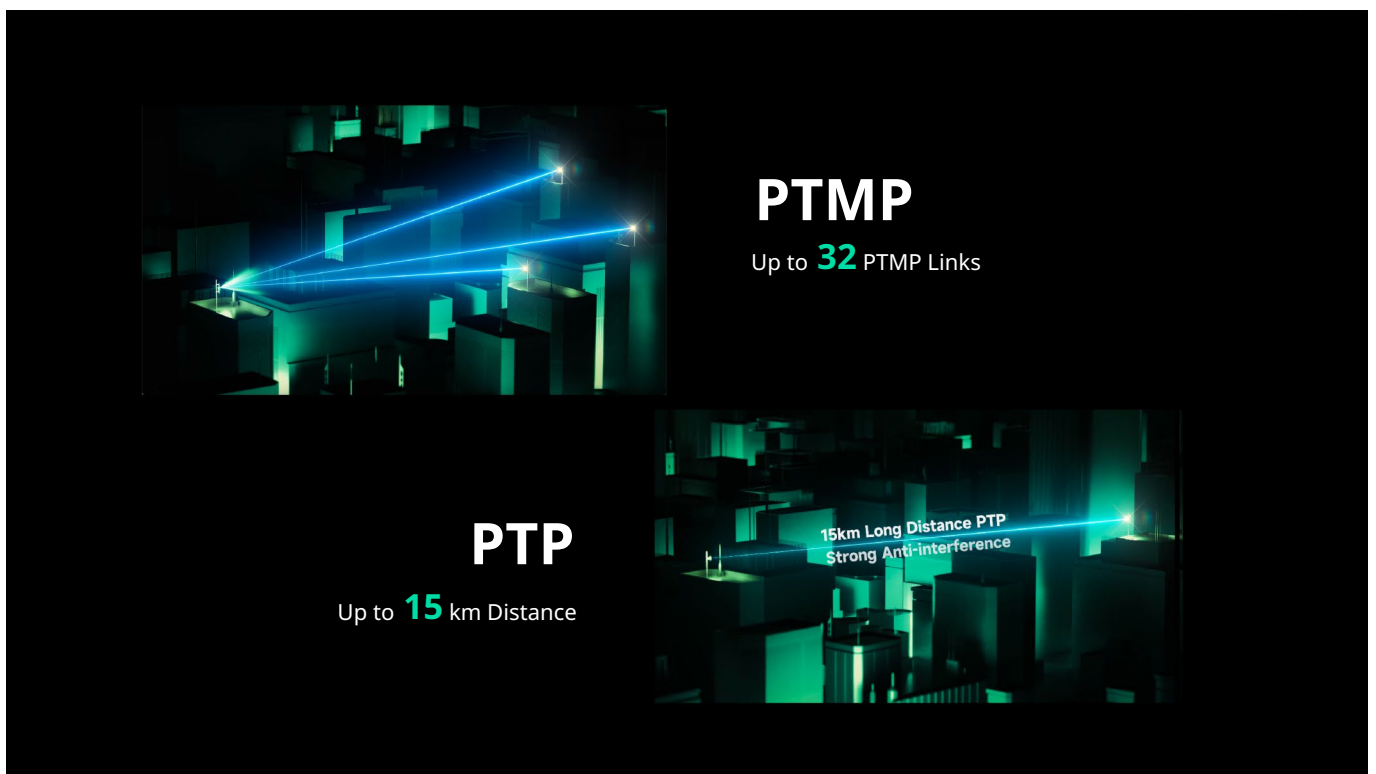
# Highlight Features



## Still Stable

Fearless of Harsh Environment

- IP65**  
Weatherproof
- 220.32 km/h (137 mph)**  
Wind Survivability
- 6 kV**  
Surge Protection
- 24 kV**  
24 kV Contact/ Air ESD



## PTMP

Up to **32** PTMP Links

## PTP

Up to **15** km Distance

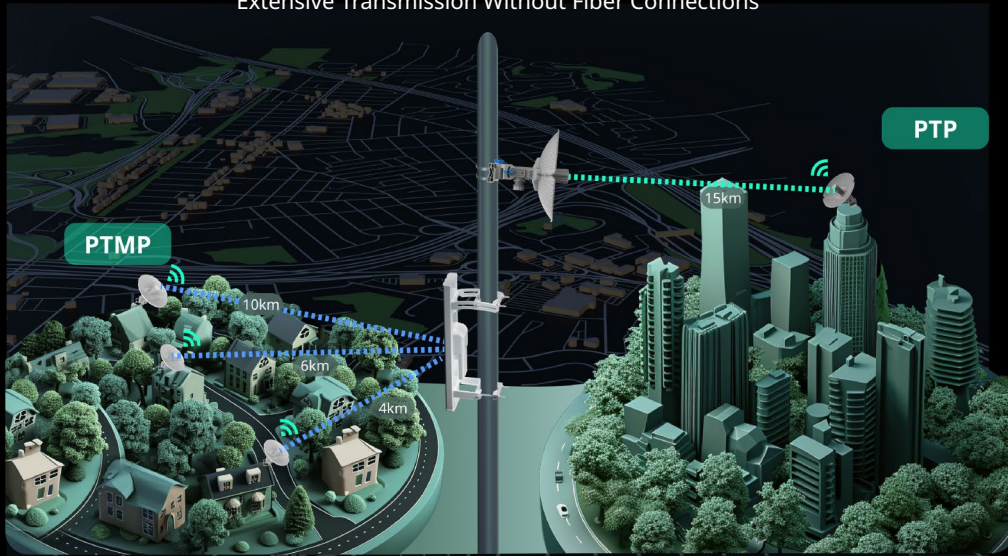
15km Long Distance PTP  
Strong Anti-interference



# Highlight Features

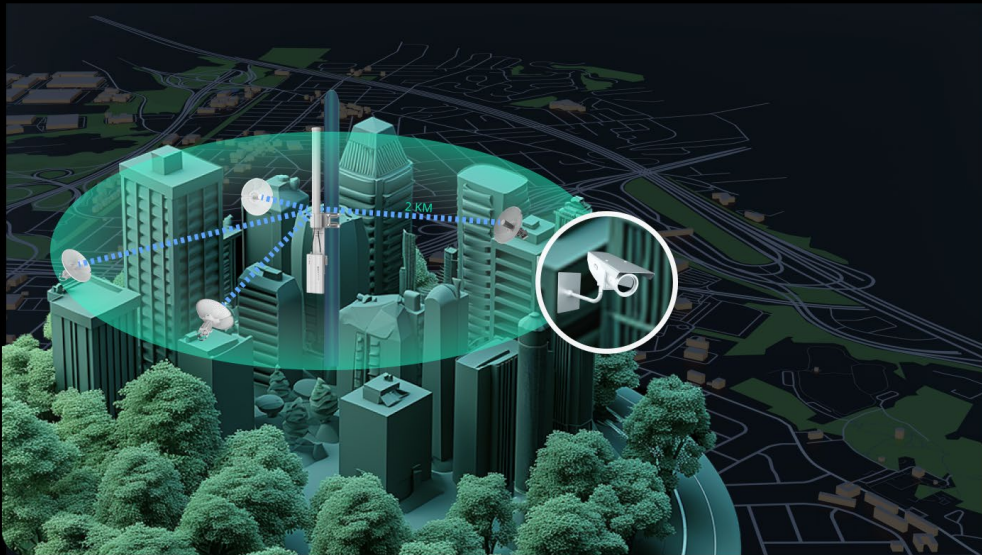
## WISP

Extensive Transmission Without Fiber Connections



## CCTV

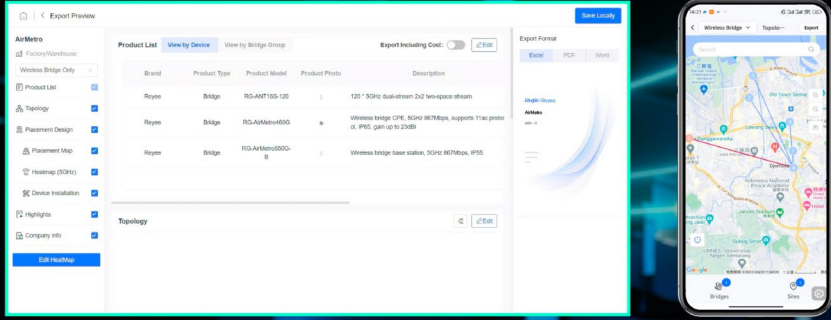
Affordable Excellence and Smooth Surveillance



# Highlight Features

## AI Heatmap for Bridge

Your Real Outdoor Adventure Companion

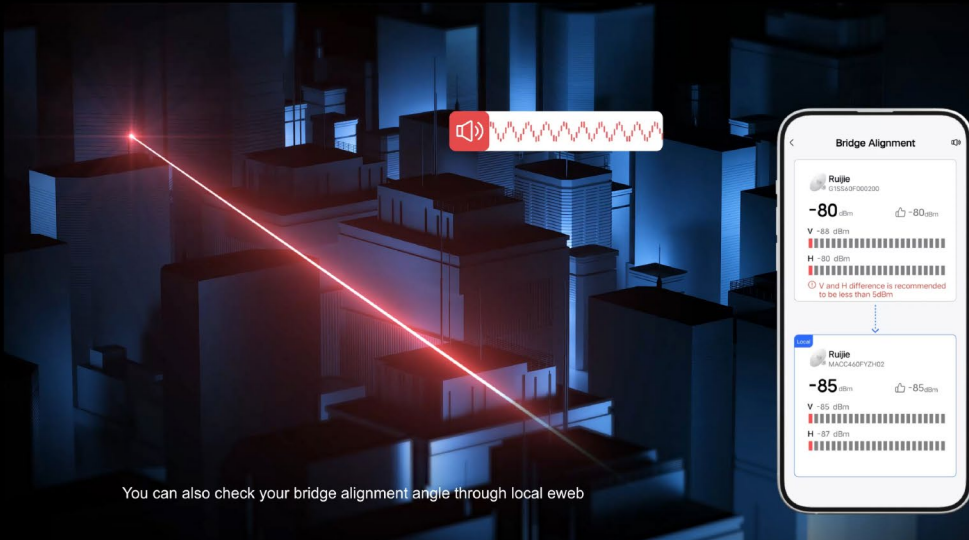


The screenshot displays the Ruijie Cloud interface for managing wireless bridges. On the left, there is a sidebar with navigation options like 'Factory/Workhouse', 'Wireless Bridge Only', 'Product List', 'Topology', 'Placement Design', 'Placement Map', 'Heatmap (2D/3D)', 'Device Installation', 'Highlights', and 'Company Info'. The main area shows a 'Product List' with columns for Brand, Product Type, Product Model, Product Photo, and Description. The list includes three entries for 'Reyee' bridges. To the right, there is an 'Export Preview' section with options for 'Export Including Cost' and 'Export Format' (Excel, PDF, Word). Below the product list is a 'Topology' section. On the right side of the interface, a mobile app is shown displaying a heatmap overlay on a map, indicating signal strength or coverage areas.

Available on both Ruijie Cloud and Ruijie Reyee App

## Alignment Tool

Your Big-Voice, Time-Saver Guide



The image shows a 3D architectural rendering of a city with a red laser line indicating a bridge alignment path. A speaker icon with a soundwave is positioned above the laser line. To the right, a mobile app interface titled 'Bridge Alignment' is shown. It displays two bridge entries with their respective alignment data:

Bridge ID	Alignment Value	Target Value
Ruijie 0155A9P000200	-80 dBm	-80 dBm
Ruijie MACCA60F2HE2	-85 dBm	-85 dBm

The app also shows signal strength bars for each bridge and a note: 'V and H difference is recommended to be less than 5dBm'. Below the app, the text reads: 'You can also check your bridge alignment angle through local eweb'.

## Highlight Features

# Spectrum Scan and Link Optimization

Thumbs-Up Guide



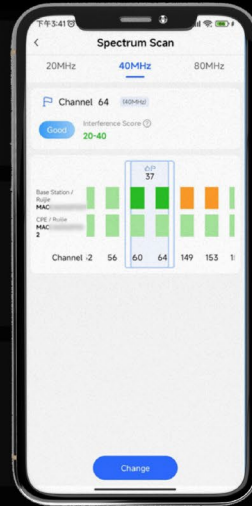
One-Click Channel Interference Scanning for All Points



Automatic Optimization Recommendations



Save Time and Effort



Available on both Ruijie Cloud and Ruijie Reyee App

## Cloud: Make Your Business Easy

- Quick Setup
- All-in-one Cloud
- Monitoring based on Real, Complete Topology
- Identifying Issues by Auto-Alarm



# Specifications

Model	RG-AirMetro460G	RG-AirMetro460F
<b>Hardware Features</b>		
<b>Radio Design</b>	5 GHz dual-stream 2.4 GHz single-stream	5 GHz dual-stream 2.4 GHz single-stream
<b>2.4 GHz Band</b>	Yes	Yes
<b>5 GHz Band</b>	Yes	Yes
<b>Protocol and Standard</b>	5 GHz: 802.11ac/n/a 2.4 GHz: 802.11b/g/n	5 GHz: 802.11ac/n/a 2.4 GHz: 802.11b/g/n
<b>Wi-Fi 4/5/6/7</b>	Wi-Fi 5	Wi-Fi 5
<b>Spatial Streams</b>	5 GHz dual-stream, 2x2 MIMO 2.4 GHz single-stream	5 GHz dual-stream, 2x2 MIMO 2.4 GHz single-stream
<b>2.4G Channel Width</b>	Auto/20/40 MHz	Auto/20/40 MHz
<b>5G Channel Width</b>	Auto/20/40/80 MHz	Auto/20/40/80 MHz
<b>Receiver Sensitivity</b>	11a: -89 dBm (6 Mbps), -80 dBm (24Mbps), -76 dBm (36 Mbps), -71 dBm (54 Mbps); 11n: -83 dBm@MCS0, -65 dBm@MCS7, -83 dBm@MCS8, -65 dBm@MCS15; 11ac: -86 dBm (MCS0), -63 dBm (MCS9)	11a: -89 dBm (6 Mbps), -80 dBm (24Mbps), -76 dBm (36 Mbps), -71 dBm (54 Mbps); 11n: -83 dBm@MCS0, -65 dBm@MCS7, -83 dBm@MCS8, -65 dBm@MCS15; 11ac: -86 dBm (MCS0), -63 dBm (MCS9)
<b>Nominal Receive Sensitivity @20 MHz Channel</b>	-91dBm (MCS0) TO -57dBm (MCS9)	-91dBm (MCS0) TO -57dBm (MCS9)
<b>Nominal Receive Sensitivity @40 MHz Channel</b>	-83dBm (MCS0) TO -57dBm (MCS9)	-83dBm (MCS0) TO -57dBm (MCS9)
<b>Nominal Receive Sensitivity @80 MHz Channel</b>	-76dBm (MCS0) TO -51dBm (MCS9)	-76dBm (MCS0) TO -51dBm (MCS9)
<b>Modulation Levels (Adaptive)</b>	MCS0(BPSK)to MCS9 (256QAM)	MCS0(BPSK)to MCS9 (256QAM)
<b>Wi-Fi Protocols (2.4 GHz)</b>	Wi-Fi 4 (IEEE 802.11b/g/n)	Wi-Fi 4 (IEEE 802.11b/g/n)
<b>Wi-Fi Protocols (5 GHz)</b>	Wi-Fi 5 (IEEE 802.11ac)	Wi-Fi 5 (IEEE 802.11ac)
<b>Wireless Data Rate</b>	867 Mbps	867 Mbps
<b>Wireless Data Rate (5 GHz)</b>	867 Mbps	867 Mbps
<b>Frequency Bands</b>	2.4 GHz: 802.11b/g/n: 2.4000 GHz to 2.483 GHz 5 GHz: 802.11a/n/ac: 5.150 GHz to 5.350 GHz, 5.470 GHz to 5.725 GHz, 5.725 GHz to	2.4 GHz: 802.11b/g/n: 2.4000 GHz to 2.483 GHz 5 GHz: 802.11a/n/ac: 5.150 GHz to 5.350 GHz, 5.470 GHz to 5.725 GHz, 5.725 GHz to



Model	RG-AirMetro460G	RG-AirMetro460F
	5.850 GHz Note: Country-specific restrictions apply.	5.850 GHz Note: Country-specific restrictions apply.
<b>2.4 GHz Max. Transmit Power</b>	20 dBm	20 dBm
<b>5 GHz Max. Transmit Power</b>	26 dBm	26 dBm
<b>Surge Protection</b>	Common mode: ±6 kV Differential mode: ±2 kV	Common mode: ±6 kV Differential mode: ±2 kV
<b>Dimensions (W x D x H)</b>	368.5mm (Diameter) x 271mm (Length) (14.50 x 10.70 in.) (within bracket)	368.5mm (Diameter) x 271mm (Length) (14.50 x 10.70 in.) (within bracket)
<b>Weight</b>	2.33 kg	2.33 kg
<b>Number of Fixed LAN Ports</b>	1	1
<b>Max. LAN Port Rate</b>	1000 Mbps	100 Mbps
<b>Number of 10/100BASE-T Ports</b>	N/A	1
<b>Number of 10/100/1000BASE-T Ports</b>	1	N/A
<b>Reset</b>	Yes	Yes
<b>Status LED</b>	Yes	Yes
<b>Power Supply</b>	24 V passive PoE	24 V passive PoE
<b>Local Power Supply</b>	Yes	Yes
<b>PoE Out</b>	No	No
<b>Supported PoE Standards</b>	No Note: Passive PoE input.	No Note: Passive PoE input.
<b>Antenna Shape</b>	Dish antenna	Dish antenna
<b>Antenna Type</b>	Built-in I directional antenna, horizontal: 9°, vertical: 9°	Built-in directional antenna, horizontal: 9°, vertical: 9°
<b>Hardware Button</b>	1 x reset button	1 x reset button
<b>LEDs</b>	1 x system LED 1 x port LEDs 3 x signal strength LEDs	1 x system LED 1 x port LEDs 3 x signal strength LEDs
<b>2.4 GHz Antenna Gain</b>	3 dBi	3 dBi
<b>5 GHz Antenna Gain</b>	23 dBi	No
<b>Power Consumption</b>	<12W	<9W
<b>IP Rating</b>	IP65	IP65

Model	RG-AirMetro460G	RG-AirMetro460F
<b>Color</b>	Standard: Gray	Standard: Elegant white
<b>Operating Temperature</b>	Operating temperature: -30°C to +60°C (-22°F to +140°F) (-40°C to +70°C [-40°F to +158°F] in publicity materials)	Operating temperature: -30°C to +65°C (-22°F to +149°F) (-40°C to +70°C (-40°F to +158°F) in publicity materials)
<b>Storage Temperature</b>	Storage temperature: -40°C to +85°C (-40°F to 185°F)	Storage temperature: -40°C to +85°C (-22°F to +185°F)
<b>Operating Humidity</b>	Operating humidity: 5% to 95% RH (non-condensing)	Operating humidity: 5% to 95% RH (non-condensing)
<b>Storage Humidity</b>	Storage humidity: 5% to 95% RH (non-condensing)	Storage humidity: 5% to 95% RH (non-condensing)
<b>MTBF</b>	> 400000 hours	> 400000 hours
<b>Working Distance</b>	15 km	15 km
<b>Bridging Performance</b>	230 Mbps/1 km (HT40) 200 Mbps/3 km (HT40) 150 Mbps/5 km (HT40) 80 Mbps/10 km (HT40) (Compared with competing products)	80 Mbps/1 km (HT40) 80 Mbps/3 km (HT40) 70 Mbps/5 km (HT40) 50 Mbps/10 km (HT40) (Compared with competing products)
<b>RSSI (dBm)</b>	-58/1 km -66/3 km -70/5 km -78/10 km (point-to-point, compared with competing products)	-58/1 km -66/3 km -70/5 km -78/10 km (point-to-point, compared with competing products)
<b>Throughput &amp; Camera Limits: 3 MP</b>	50/1 km 45/3 km 20/5 km 16/10 km	12/1 km 12/3 km 10/5 km 6/10 km
<b>Throughput &amp; Camera Limits: 4 to 5 MP</b>	30/1 km 25/3 km 12/5 km 8/10 km	8/1 km 8/3 km 6/5 km 4/10 km
<b>Throughput &amp; Camera Limits: 6 to 7 MP</b>	20/1 km 13/3 km 8/5 km 5/10 km	6/1 km 6/3 km 5/5 km 3/10 km
<b>Throughput &amp; Camera Limits: 7 to 8 MP</b>	15/1 km 12/3 km	4/1 km 4/3 km

Model	RG-AirMetro460G	RG-AirMetro460F
	6/5 km 4/10 km	3/5 km 2/10 km
Management Radio	2.412G~2.472GHz	2.412G~2.472GHz
Number of PtMP Links	1	1
ESD Protection	Tolerance:±24 k Contact/ Air(对外)	Tolerance:±24 k Contact/ Air (对外)
Certification	CE	CE
Software Features		
Operating Mode	Base Station/CPE	Base Station/CPE
Channel Spacing	20 MHz	20 MHz
TDMA	Fixed Mode/Flexible Mode	Fixed Mode/Flexible Mode
WLAN Security	WPA2-PSK	WPA2-PSK
Management SSID	@Ruijie-bxxxx	@Ruijie-bxxxx
SSID Hiding	Yes	Yes
Spectrum Scan	Yes	Yes
Antenna Aligment	Yes	Yes
One-Touch Pairing	Yes	Yes
WMM	Yes	Yes
Storm Control	Yes	Yes
VLAN Packet Transmit	Yes	Yes
DHCP Server	Yes	Yes
DHCP Client	Yes	Yes
Network Diagnostics	Ping/TraceRoute/Dns	Ping/TraceRoute/Dns
Time & Date	Yes	Yes
Firmware Upgrade	Yes	Yes
Backup/Restore	Yes	Yes
Cloud Management	Yes	Yes
Power Configuration	Yes	Yes
Country/Region Code	Yes	Yes
Remote Restart	Yes	Yes
SON	Self-organizing Networking with Bridges	Self-organizing Networking with Bridges

Model	RG-AirMetro460G	RG-AirMetro460F
SNMP	Yes	Yes
Link Aggregation	No	No
Throughput & Camera Limits	Reference performance recommendation table	Reference performance recommendation table
Ping	Yes	Yes
Traceroute	Yes	Yes
AI Heatmap	Yes	Yes



## Package Contents

Model	RG-AirMetro460G	RG-AirMetro460F
Wireless Bridge/Antenna	1	1
PoE Injector	1	1
DC Power Adapter	0	0
Mounting Bracket	1	1
Gross Weight	2.33Kg	2.33Kg
Package Dimensions (W x D x H)	368.5mm (Diameter) x 271mm (Length) (14.50 x 10.70 in.) (within bracket)	368.5mm (Diameter) x 271mm (Length) (14.50 x 10.70 in.) (within bracket)

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 **Redefine your easy network**

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