# Ruijie | Reyee

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

DATASHEET **Explore More** ▶

## 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

Stable, but Much Easier

## RG-AirMetro Series Wireless Bridges

**After pairing, the bridges support:**
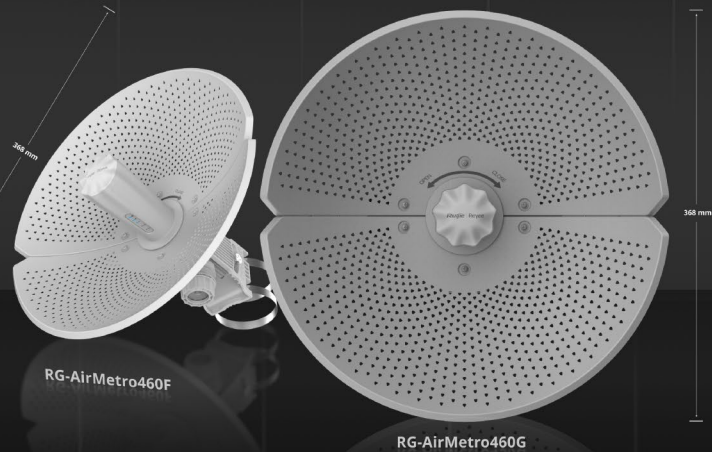
**15** km
Up to 15 km
Wireless Transmission

**32** PTMP
Up to 32 PTMP
Links

Easy Site Survey
Tool

All-in-One Cloud
Management

368 mm

368 mm

RG-AirMetro460F

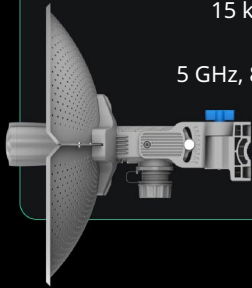RG-AirMetro460G

# Highlight Features

## CPE

Mix freely for Various Scenarios

### RG-AirMetro460G

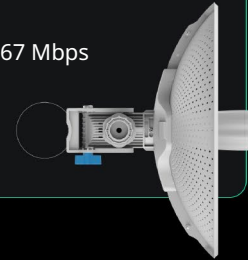1 x 10/100/1000 Mbps Port

15 km, 23 dBi

5 GHz, 867 Mbps

### RG-AirMetro460F

1x 10/100 Mbps Port

15 km, 23 dBi

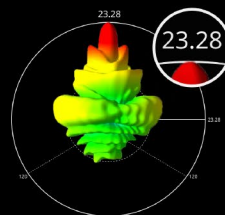5 GHz, 867 Mbps

## Signal Enhancement

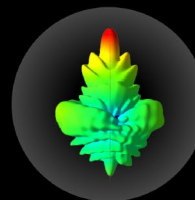The Secret of Circular Grace

**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.

23.28

23.28

**Horizontal:** 23.28 dBi

**Vertical:** 23.19 dBi

Note: All data here are theoretical values obtained by Ruijie Reyee 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.
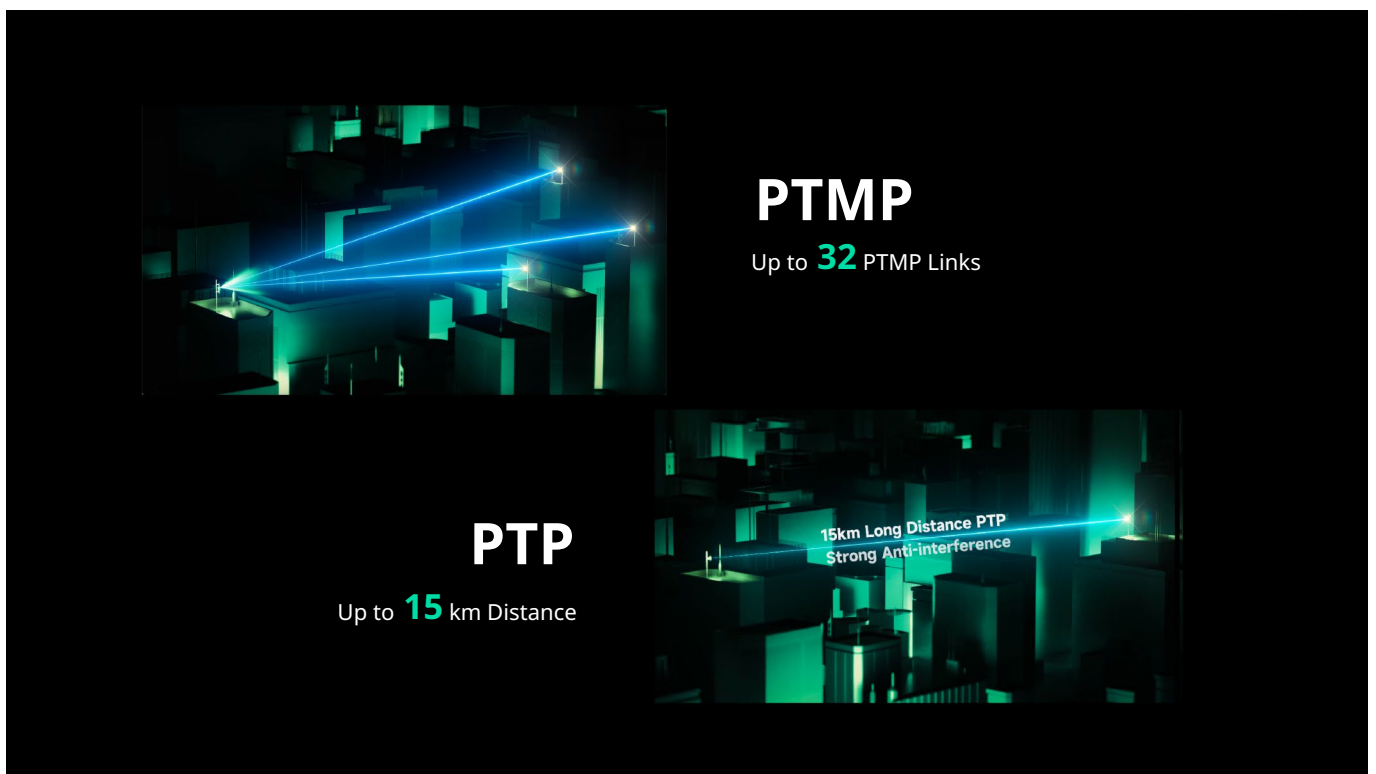
# Highlight Features

## Still Stable
### Fearless of Harsh Environment

**IP65**
IP65
Weatherproof

**220.32 km/h (137 mph)**
Wind Survivability

**6kV**
6 kV
Surge Protection

**24kV**
24 kV
Contact/ Air
ESD

## PTMP
Up to **32** PTMP Links

## PTP
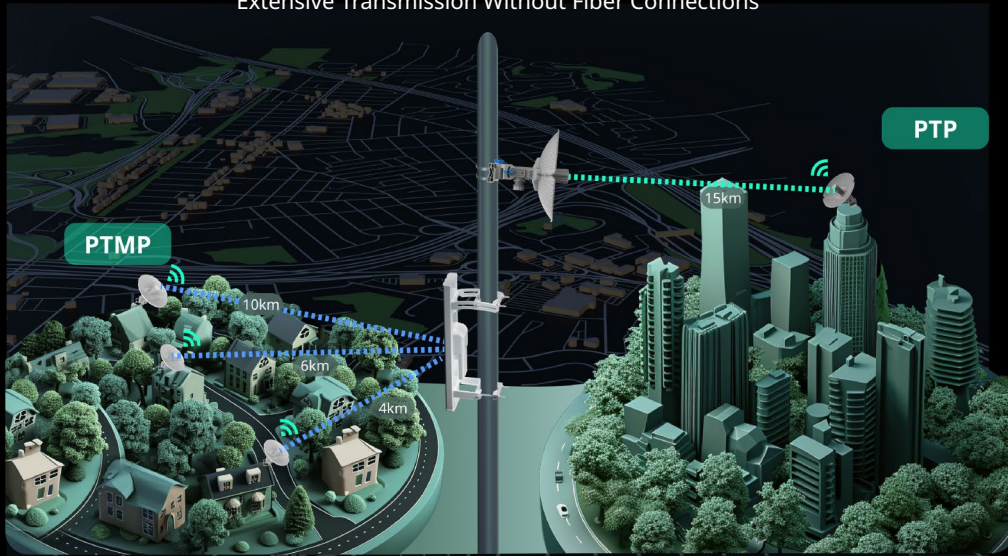Up to **15** km Distance

15km Long Distance PTP
Strong Anti-interference

## Highlight Features



### WISP

Extensive Transmission Without Fiber Connections
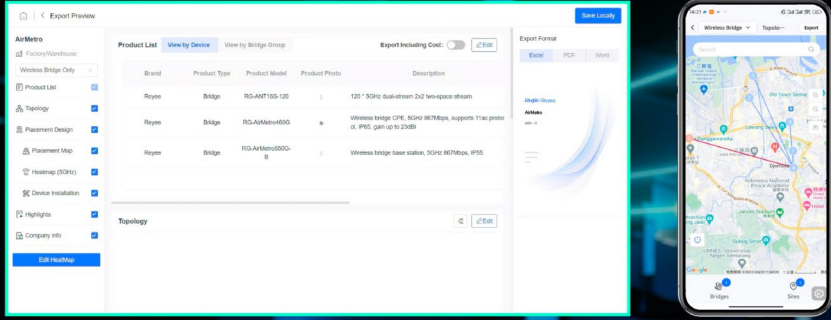
PTP

PTMP

15km

10km

6km

4km



### CCTV

Affordable Excellence and Smooth Surveillance

2 KM
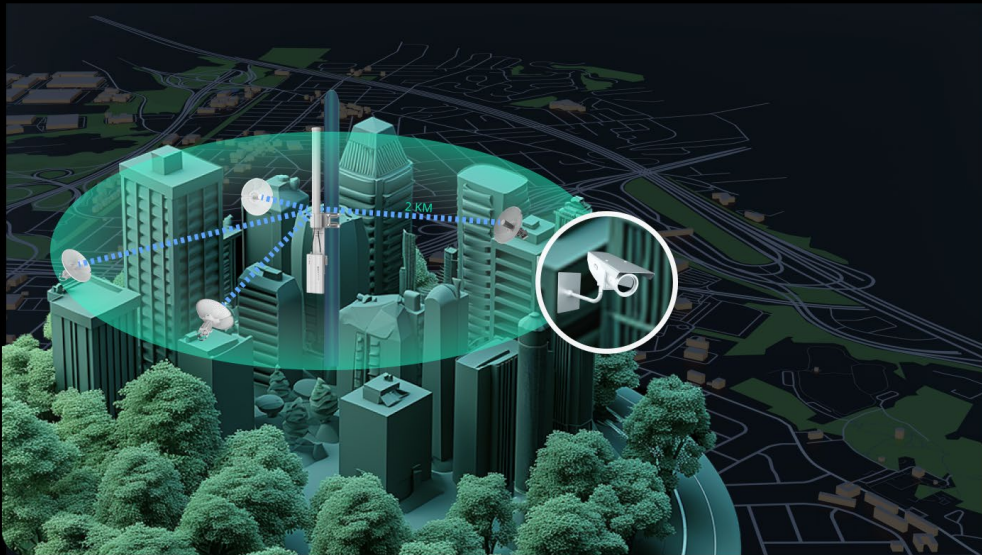
# Highlight Features



## AI Heatmap for Bridge

Your Real Outdoor Adventure Companion

**Available on both Ruijie Cloud and Ruijie Reyee App**



## Alignment Tool

Your Big-Voice, Time-Saver Guide

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

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

## Specifications

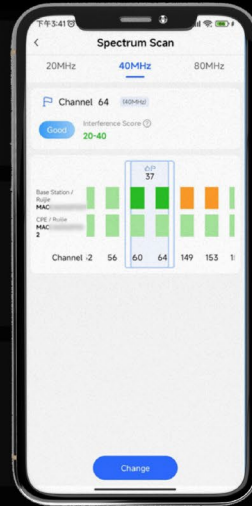| Model | RG-AirMetro460G | RG-AirMetro460F |
|---|---|---|
| **Hardware Features** | | |
| **Radio Design** | 5 GHz dual-stream<br><br>2.4 GHz single-stream | 5 GHz dual-stream<br><br>2.4 GHz single-stream |
| **2.4 GHz Band** | Yes | Yes |
| **5 GHz Band** | Yes | Yes |
| **Protocol and Standard** | 5 GHz: 802.11ac/n/a<br><br>2.4 GHz: 802.11b/g/n | 5 GHz: 802.11ac/n/a<br><br>2.4 GHz: 802.11b/g/n |
| **Wi-Fi 4/5/6/7** | Wi-Fi 5 | Wi-Fi 5 |
| **Spatial Streams** | 5 GHz dual-stream, 2x2 MIMO<br><br>2.4 GHz single-stream | 5 GHz dual-stream, 2x2 MIMO<br><br>2.4 GHz single-stream |
| **2.4G Channel Width** | Auto/20/40 MHz | Auto/20/40 MHz |
| **5G Channel Width** | Auto/20/40/80 MHz | Auto/20/40/80 MHz |
| **Receiver Sensitivity** | 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) |
| **Nominal Receive Sensitivity @20 MHz Channel** | -91dBm (MCS0) TO -57dBm (MCS9) | -91dBm (MCS0) TO -57dBm (MCS9) |
| **Nominal Receive Sensitivity @40 MHz Channel** | -83dBm (MCS0) TO -57dBm (MCS9) | -83dBm (MCS0) TO -57dBm (MCS9) |
| **Nominal Receive Sensitivity @80 MHz Channel** | -76dBm (MCS0) TO -51dBm (MCS9) | -76dBm (MCS0) TO -51dBm (MCS9) |
| **Modulation Levels (Adaptive)** | MCSO(BPSK)to MCS9 (256QAM) | MCSO(BPSK)to MCS9 (256QAM) |
| **Wi-Fi Protocols (2.4 GHz)** | Wi-Fi 4 (IEEE 802.11b/g/n) | Wi-Fi 4 (IEEE 802.11b/g/n) |
| **Wi-Fi Protocols (5 GHz)** | Wi-Fi 5 (IEEE 802.11ac) | Wi-Fi 5 (IEEE 802.11ac) |
| **Wireless Data Rate** | 867 Mbps | 867 Mbps |
| **Wireless Data Rate (5 GHz)** | 867 Mbps | 867 Mbps |
| **Frequency Bands** | 2.4 GHz: 802.11b/g/n: 2.4000 GHz to 2.483 GHz<br><br>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<br><br>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<br><br>Note: Country-specific restrictions apply. | 5.850 GHz<br><br>Note: Country-specific restrictions apply. |
| 2.4 GHz Max. Transmit Power | 20 dBm | 20 dBm |
| 5 GHz Max. Transmit Power | 26 dBm | 26 dBm |
| Surge Protection | Common mode: ±6 kV Differential mode: ±2 kV | Common mode: ±6 kV Differential mode: ±2 kV |
| Dimensions (W x D x H) | 368.5mm (Diameter) x 271mm (Length)<br>(14.50 x 10.70 in.)<br>(within bracket) | 368.5mm (Diameter) x 271mm (Length)<br>(14.50 x 10.70 in.)<br>(within bracket) |
| Weight | 2.33 kg | 2.33 kg |
| Number of Fixed LAN Ports | 1 | 1 |
| Max. LAN Port Rate | 1000 Mbps | 100 Mbps |
| Number of 10/100BASE-T Ports | N/A | 1 |
| Number of 10/100/1000BASE-T Ports | 1 | N/A |
| Reset | Yes | Yes |
| Status LED | Yes | Yes |
| Power Supply | 24 V passive PoE | 24 V passive PoE |
| Local Power Supply | Yes | Yes |
| PoE Out | No | No |
| Supported PoE Standards | No<br>Note: Passive PoE input. | No<br>Note: Passive PoE input. |
| Antenna Shape | Dish antenna | Dish antenna |
| Antenna Type | Built-in l directional antenna, horizontal: 9°, vertical: 9° | Built-in directional antenna, horizontal: 9°, vertical: 9° |
| Hardware Button | 1 x reset button | 1 x reset button |
| LEDs | 1 x system LED<br>1 x port LEDs<br>3 x signal strength LEDs | 1 x system LED<br>1 x port LEDs<br>3 x signal strength LEDs |
| 2.4 GHz Antenna Gain | 3 dBi | 3 dBi |
| 5 GHz Antenna Gain | 23 dBi | No |
| Power Consumption | <12W | <9W |
| IP Rating | IP65 | IP65 |

| Model | RG-AirMetro460G | RG-AirMetro460F |
|---|---|---|
| Color | Standard: Gray | Standard: Elegant white |
| Operating Temperature | 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) |
| Storage Temperature | Storage temperature: –40°C to +85°C (–40°F to 185°F) | Storage temperature: –40°C to +85°C (–22°F to +185°F) |
| Operating Humidity | Operating humidity: 5% to 95% RH (non-condensing) | Operating humidity: 5% to 95% RH (non-condensing) |
| Storage Humidity | Storage humidity: 5% to 95% RH (non-condensing) | Storage humidity: 5% to 95% RH (non-condensing) |
| MTBF | > 400000 hours | > 400000 hours |
| Working Distance | 15 km | 15 km |
| Bridging Performance | 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) |
| RSSI (dBm) | –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) |
| Throughput & Camera Limits：3 MP | 50/1 km 45/3 km 20/5 km 16/10 km | 12/1 km 12/3 km 10/5 km 6/10 km |
| Throughput & Camera Limits：4 to 5 MP | 30/1 km 25/3 km 12/5 km 8/10 km | 8/1 km 8/3 km 6/5 km 4/10 km |
| Throughput & Camera Limits：6 to 7 MP | 20/1 km 13/3 km 8/5 km 5/10 km | 6/1 km 6/3 km 5/5 km 3/10 km |
| Throughput & Camera Limits：7 to 8 MP | 15/1 km 12/3 km | 4/1 km 4/3 km |

| Model | RG-AirMetro460G | RG-AirMetro460F |
|---|---|---|
| | 6/5 km<br><br>4/10 km | 3/5 km<br><br>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) |

# Ruijie | Reyee

## Redefine your easy network

Ruijie Networks Co., Ltd.

**Official Website:** https://Reyee.Ruijie.com