

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

DATASHEET



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

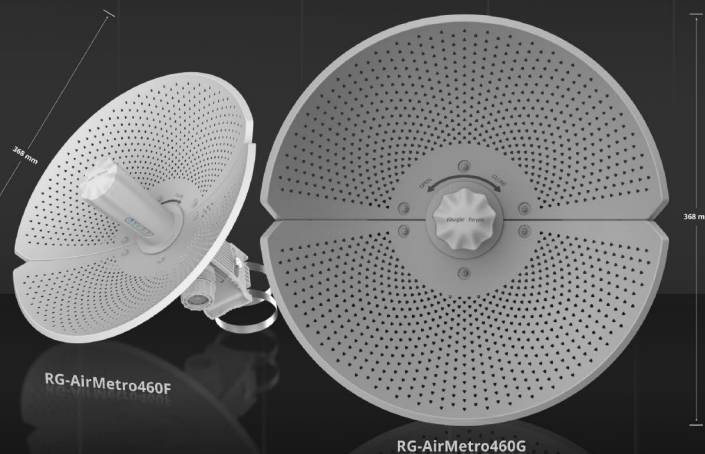
Up to 32 PTMP
Links



Easy Site Survey
Tool



All-in-One Cloud
Management



/ Highlight Features

CPE

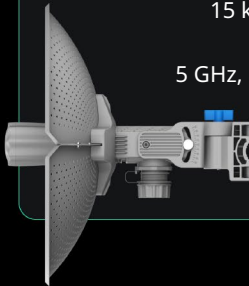
Mix freely for Various Scenarios

RG-AirMetro460G

1 x 10/100/1000 Mbps Port

15 km, 23 dBi

5 GHz, 867 Mbps

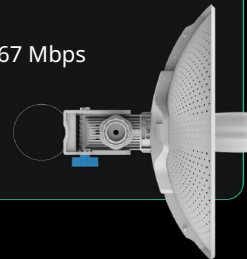


RG-AirMetro460F

1x 10/100 Mbps Port

15 km, 23 dBi

5 GHz, 867 Mbps



Signal Enhancement

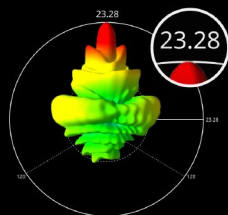
The Secret of Circular Grace

Compared with Square Antenna:

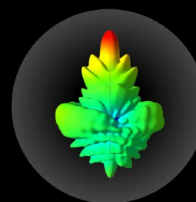
The **total gain** of the circular is **increased**;

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 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.

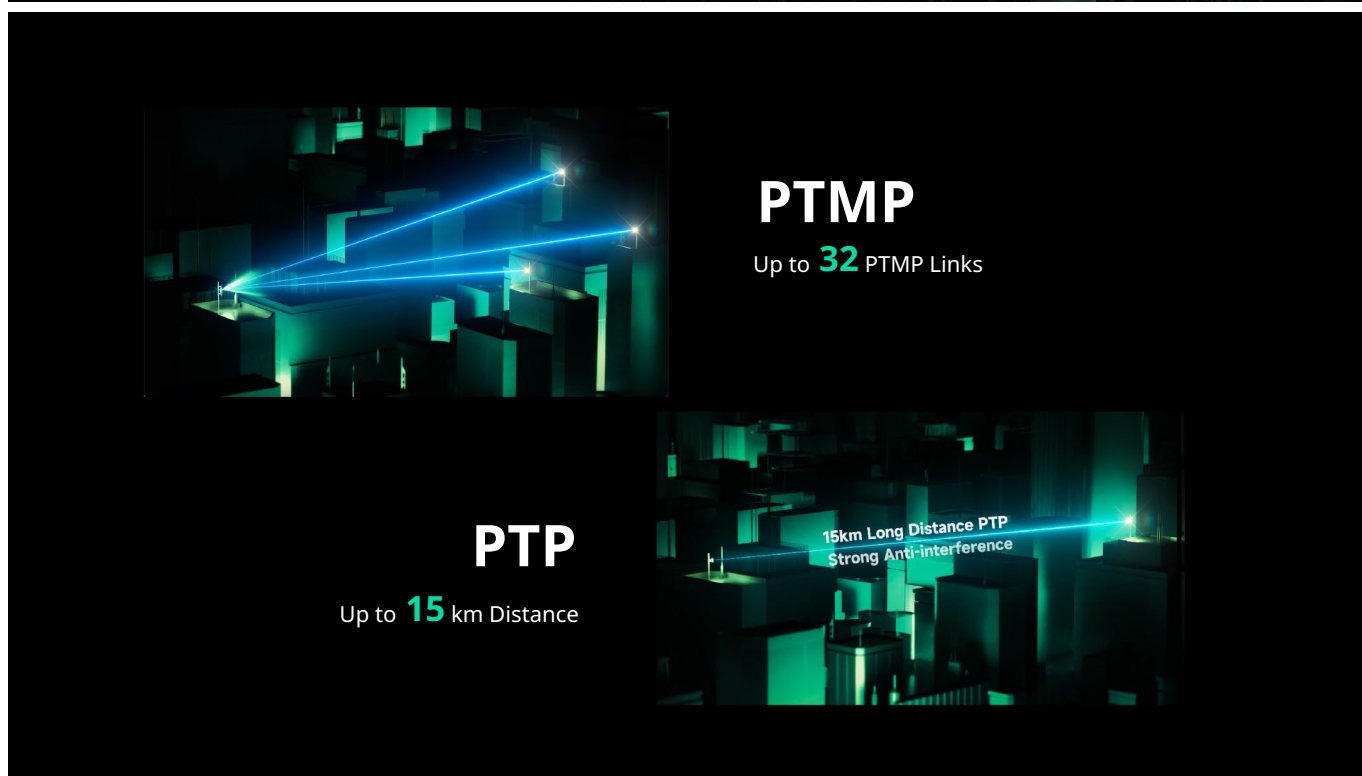
/ Highlight Features



Still Stable

Fearless of Harsh Environment

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



PTMP

Up to **32** PTMP Links



PTP

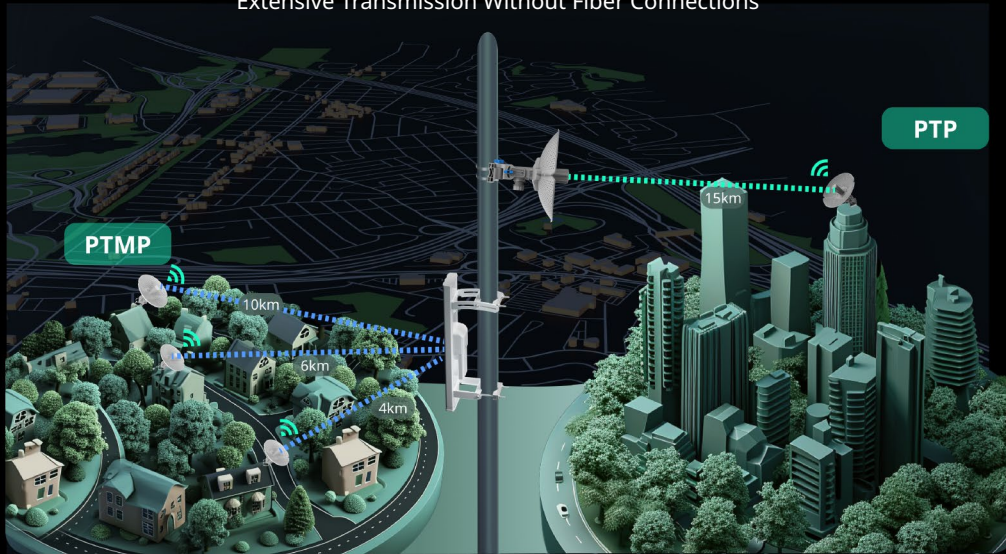
Up to **15** km Distance

15km Long Distance PTP
Strong Anti-interference

Highlight Features

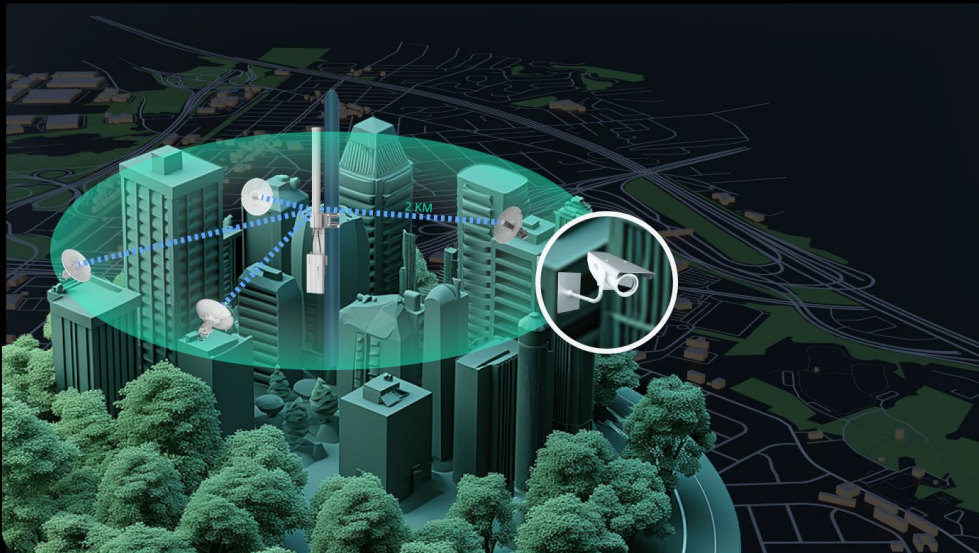
WISP

Extensive Transmission Without Fiber Connections



CCTV

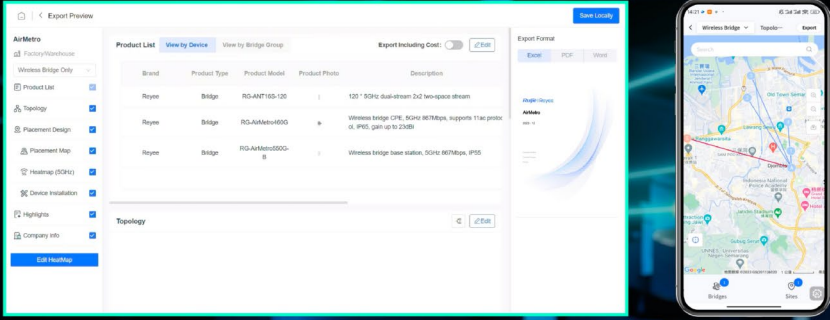
Affordable Excellence and Smooth Surveillance



Highlight Features

AI Heatmap for Bridge

Your Real Outdoor Adventure Companion

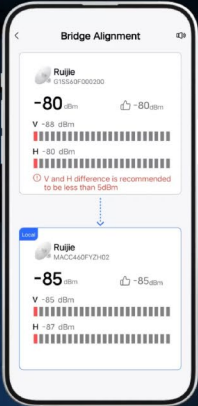


The screenshot shows the 'Export Preview' interface of the Ruijie AI Heatmap for Bridge. The desktop view displays a 'Product List' table with columns for Brand, Product Type, Product Model, Product Photo, and Description. The table lists three Ruijie Bridge models: RS-A40T165-120, RS-A40M400G, and RS-A40M500G. The interface also includes a 'Product List' sidebar, a 'View by Bridge Group' dropdown, and an 'Export' button. The smartphone view shows a map with a heatmap overlay, indicating the location and status of the bridge.

Available on both Ruijie Cloud and Ruijie Reyee App

Alignment Tool

Your Big-Voice, Time-Saver Guide



The screenshot shows the 'Bridge Alignment' interface of the Ruijie Alignment Tool. The interface displays a list of bridges with their alignment status. The first bridge, 'Ruijie 0155A9F000200', has an alignment status of -80 dBm. The second bridge, 'Ruijie MACA60F2H42', has an alignment status of -85 dBm. The interface also includes a 'Bridge Alignment' title, a 'Ruijie' logo, and a 'Bridge Alignment' button. A red laser line is shown in the background, indicating the alignment path.

You can also check your bridge alignment angle through local eweb

Highlight Features

Spectrum Scan and Link Optimization

Thumbs-Up Guide



Available on both Ruijie Cloud and Ruijie Reeye App

Cloud: Make Your Business Easy

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



Specifications

CPE

Specification	RG-AirMetro460G	RG-AirMetro460F
Basic Features		
Working Distance	15 km	15 km
Gain	23 dBi	23 dBi
Angle	H: 9°, V: 9°	H: 9°, V: 9°
Capacity	5 GHz, 867 Mbps	5 GHz, 867 Mbps
Frequency Range*	2.4 GHz: 802.11 b/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 5.850 GHz (Note: Country-specific restrictions apply.) European Union & United Kingdom 2400-2483.5 MHz, EIRP ≤ 20 dBm 5470-5725 MHz, EIRP ≤ 30 dBm Myanmar: 2400-2483.5 MHz, EIRP ≤ 23 dBm 5725-5825 MHz, EIRP ≤ 30 dBm Thailand: 2.4 GHz to 2.4835 GHz: 20 dBm 5.725 GHz to 5.825 GHz: 30 dBm Indonesia: 2400-2483.5 MHz, EIRP ≤ 27 dBm 5725-5825 MHz, EIRP ≤ 23 dBm Egypt: 2400-2483.5 MHz, EIRP ≤ 20 dBm 5150-5350 MHz, EIRP ≤ 23 dBm	
Note: The allowable frequencies and bands may vary depending on country-specific regulations.		
Management Radio	2.412GHz-2.472GHz	
Port	1 x 10/100/1000 Mbps	1 x 10/100Mbps
IP Rating	IP65	IP65
Operating Temperature*	-40°C to +70°C (-40°F to +158°F)	-40°C to +70°C (-40°F to +158°F)
Note: When a power adapter is used, the maximum operating temperature for both the device and the power adapter is 60°C (140°F).		
Electrostatic Protection	±24 kV Contact/Air	±24 kV Contact/Air
Surge Protection	6 kV	6 kV
Power	24 V Passive PoE	24 V Passive PoE

Specifications

Software Features

Specification	RG-AirMetro460G	RG-AirMetro460F
LED	3 x Signal Strength LED 1 x LAN LED 1 x System LED	
Dimensions (Diameter x Length, including mounting kit)	368.5 x 271 mm (14.5 x 10.7 in.)	
Operation Mode	Base Station/CPE	
Channel Width	20/40/80Mhz	
Default Login IP	10.44.77.254	
Default Login Password	admin	
TDMA	Fixed Mode/Flexible Mode	
WLAN SECURITY	WPA2-PSK	
Manage SSID	@Ruijie-bxxxx	
SSID Hidden	✓	
Spectrum Scan	✓	
Antenna Alignment	✓	
One-Touch Pairing	✓	
WMM	✓	
Storm Control	✓	
VLAN Packet Transmit	✓	
DHCP Server	✓	
Network Diagnoses	Ping/TraceRoute/Dns	
TIME&Date Setting	✓	
Firmware Upgrade	✓	
Backup/Restore Configuration	✓	
Manage By Cloud	✓	

Specifications

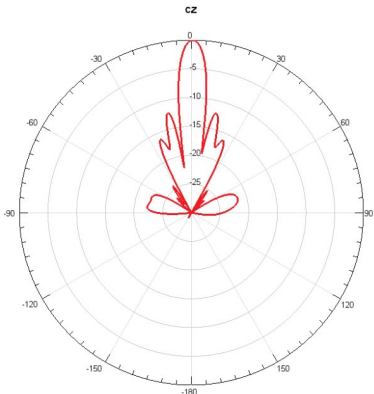
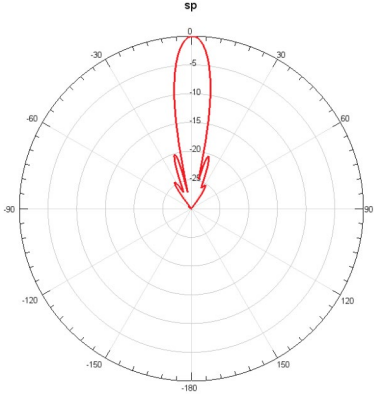
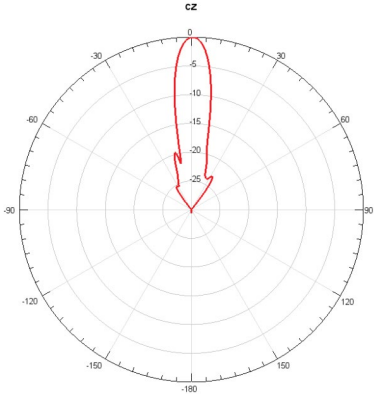
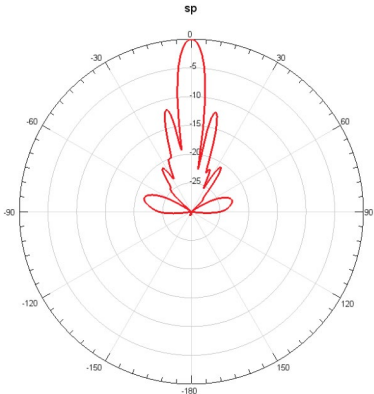
Hardware Features

Specification	RG-AirMetro460G	RG-AirMetro460F
Power Configuration	✓	
Country or region code configuration	✓	
Language Setting	Chinese/English	
Remote Restart	✓	
ARQ	✓	
Nominal Receive Sensitivity @20 MHz Channel	MCS0=-95dBm TO MCS7=-77dBm	
Nominal Receive Sensitivity @40 MHz Channel	MCS0=-91dBm TO MCS7=-73dBm	
Nominal Receive Sensitivity @80 MHz Channel	MCS0=-89dBm TO MCS9=-64dBm	
Modulation Levels (Adaptive)	MCS0(BPSK)to MCS9 (256QAM5/6)	
Transmit Power Range	0 to +26 dBm (1 dB interval)	
Hardware Button	1 x Reset/WPS button	1 x Reset/WPS button
Power Supply	24 V passive PoE input (shipped with a 24 V PoE injector)	24 V passive PoE input (shipped with a 24 V PoE injector)
Power Consumption	< 12 W	< 9 W
Environment*	Operating temperature: -40°C to +70°C (-40°F to +158°F)	Operating temperature: -40°C to +70°C (-40°F to +158°F)
	Storage temperature: -40°C to +85°C (-40°F to +185°F)	
	Operating humidity: 5% to 95% RH (non-condensing)	
	Storage humidity: 5% to 95% RH (non-condensing)	

Note: When a power adapter is used, the maximum operating temperature for both the device and the power adapter is 60°C (140°F).

MTBF > 400,000 hours

Antenna Pattern

Specification	RG-AirMetro460G	RG-AirMetro460F
V Port (Vertically Polarization) Vertical Pattern		
V port (vertically Polarization) Horizontal Pattern		
H Port (Horizontal Polarization) Vertical Pattern		
H Port (Horizontal Polarization) Horizontal Pattern		

Package Contents

Package Contents	RG-AirMetro460G	RG-AirMetro460F
Wireless Bridge	1	1
PoE Injector, 24 V, 0.5 A	1	1
Power Cord	1	1
Reflector	2	2
Mounting Bracket Assembly	1	1
User Manual	1	1
Warranty Card	1	1
Metal Clamp	2	2

Ruijie | Rcycc

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