

Station of RG-AirMetro Series Wireless Bridges for PTMP

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:

10 km

Up to 10 km
Wireless Transmission

32 PTMP

Up to 32 PTMP
Links



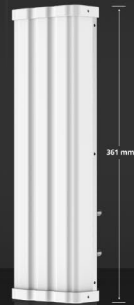
Easy Site Survey
Tool



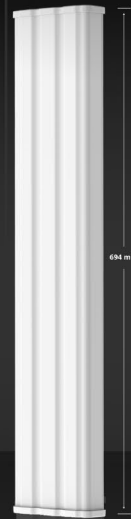
All-in-One Cloud
Management



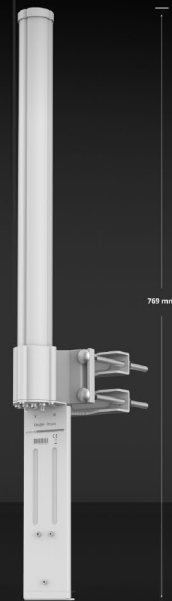
RG-AirMetro550G-B



RG-ANT16S-120



RG-ANT20S-90



RG-ANT13-360

/ Highlight Features

A Perfect Match for Different Devices and Scenarios



SMA
Connectors

Fast Pairing

One-Touch Pairing All in 30 sec



Highlight Features

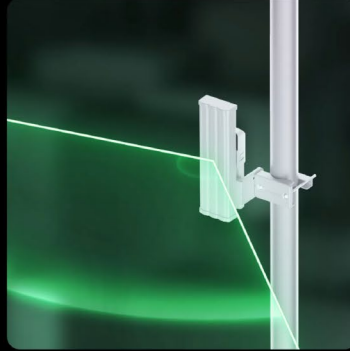
Antennas

Triple Devices, Beyond Triple Choices



RG-ANT20S-90

5 GHz, 20 dBi
H: 90°, V: 7°
10 km



RG-ANT16S-120

5 GHz, 16 dBi
H: 120°, V: 10°
5 km



RG-ANT13-360

5 GHz, 13 dBi
H: 360°, V: 7°
2 km

Still Stable

Fearless of Harsh Environment

IP55

IP55
Weatherproof



220.32 km/h
(137 mph)
Wind Survivability

6kV

6 kV
Surge Protection

24kV

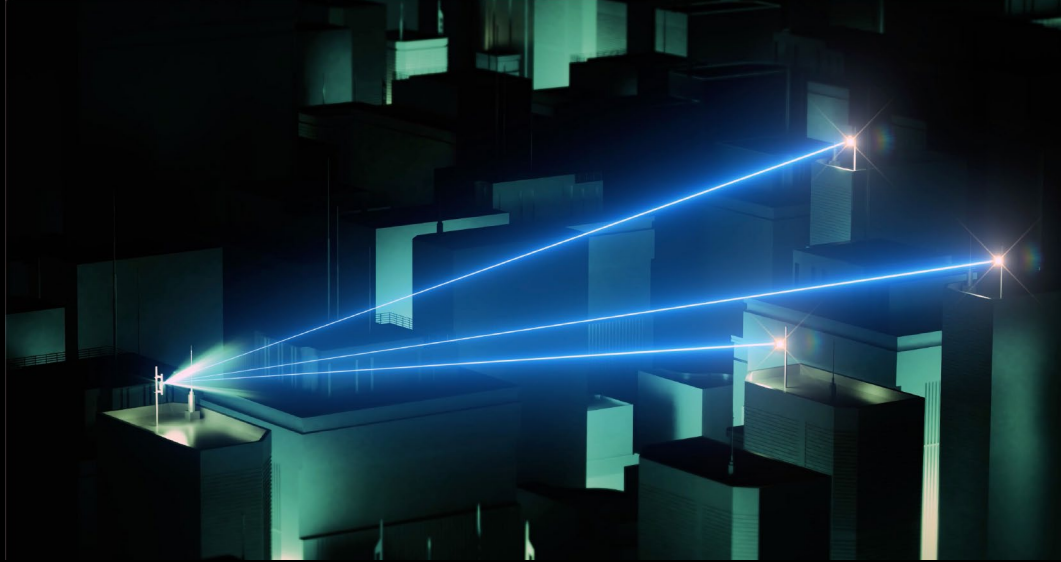
24 kV
Contact/ Air
ESD



/ Highlight Features

PTMP

Up to **32** PTMP Links



WISP

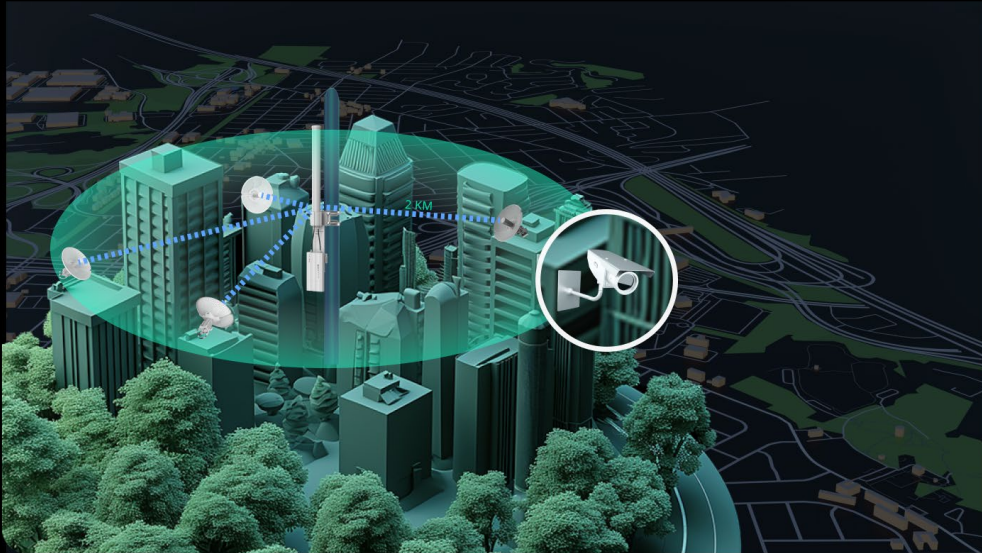
Extensive Transmission Without Fiber Connections



Highlight Features

CCTV

Affordable Excellence and Smooth Surveillance



AI Heatmap for Bridge

Your Real Outdoor Adventure Companion

The image shows a software interface for 'AI Metro' on the left and a smartphone displaying the 'Ruijie Reyee App' on the right. The software interface includes a sidebar with navigation options like 'Factory/Warehouse', 'Product List', 'Topology', 'Placement Design', 'Placement Map', 'Heatmap (DCH)', 'Device Installation', 'Highlights', and 'Company Info'. The main area displays a 'Product List' table with columns for Brand, Product Type, Product Model, Product Photo, and Description. Below the table is a 'Topology' section. The smartphone screen shows a map with various location markers and a red line indicating a path or route.

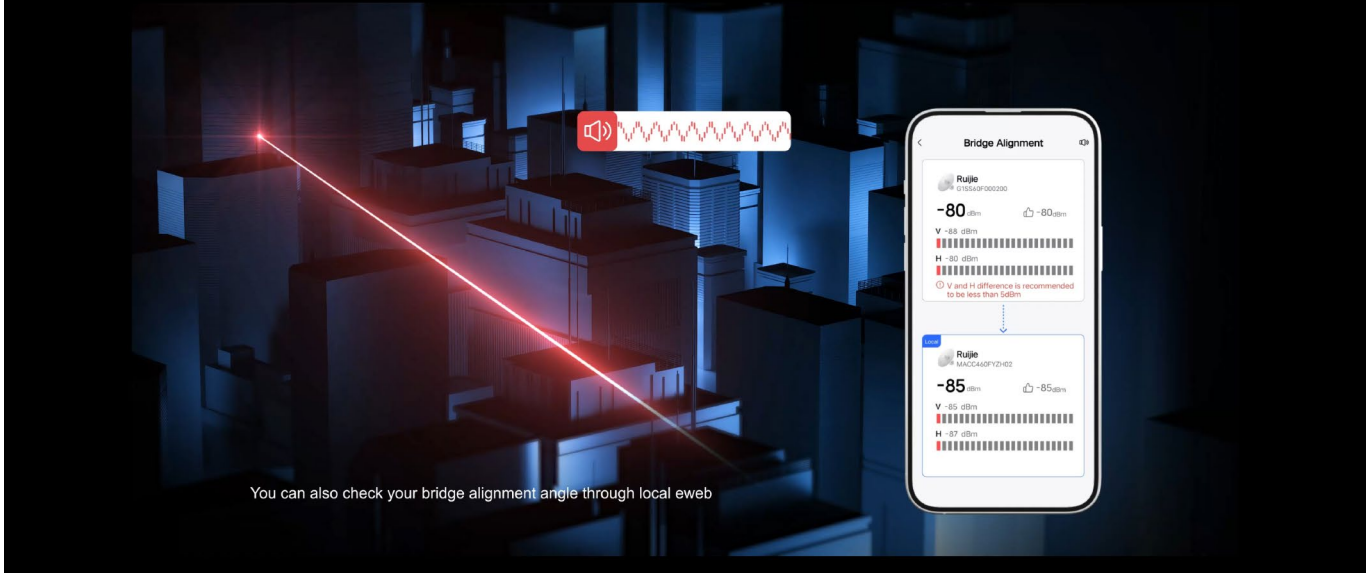
Brand	Product Type	Product Model	Product Photo	Description
Reyee	Bridge	RS-ANT185-120		120° 5GHz dual-stream 2x2 MIMO PoE stream
Reyee	Bridge	RS-AirMesh-6000		Wireless bridge CPE, 5GHz 802.11n, supports 11ac power of IP60, gain up to 23dB
Reyee	Bridge	RS-AirMesh-5500-8		Wireless bridge base station, 5GHz 802.11n, IP55

Available on both Ruijie Cloud and Ruijie Reyee App

Highlight Features

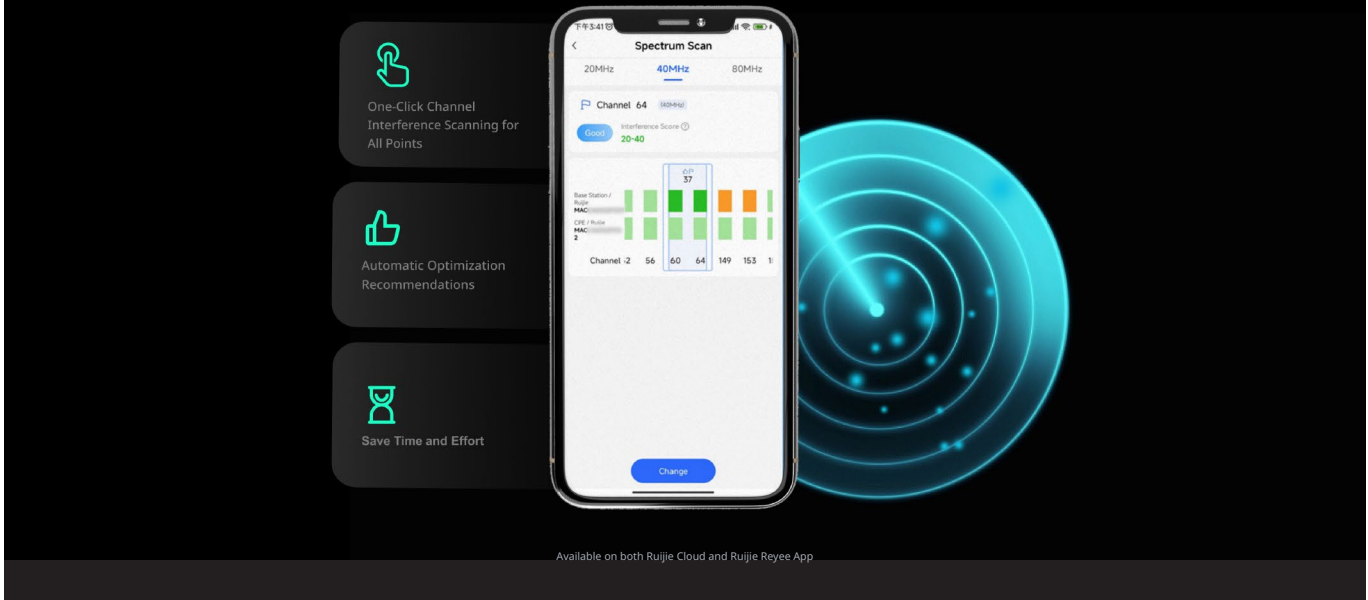
Alignment Tool

Your Big-Voice, Time-Saver Guide



Spectrum Scan and Link Optimization

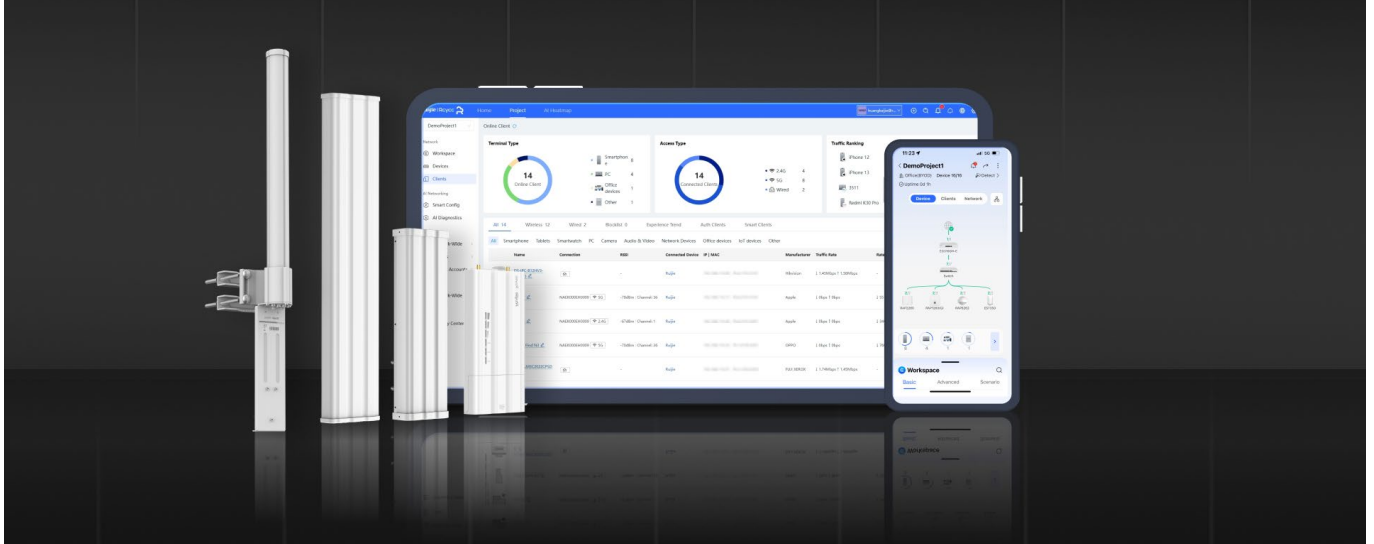
Thumbs-Up Guide



Highlight Features

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-AirMetro550G-B	RG-ANT13-360	RG-ANT16S-120	RG-ANT20S-90
Hardware Features				
Radio Design	5 GHz dual-stream 2.4 GHz single-stream		N/A	
2.4 GHz Band	Yes	No	No	No
5 GHz Band	Yes	No	No	No
Protocol and Standard	5 GHz: 802.11ac/n/a 2.4 GHz: 802.11b/g/n	5.15 to 5.85 GHz	5.15 to 5.85 GHz	5.15 to 5.85 GHz
Wi-Fi 4/5/6/7	Wi-Fi 5			
Spatial Streams	5 GHz dual-stream, 2x2 MIMO 2.4 GHz single-stream			
2.4G Channel Width	Auto/20/40 MHz			
5G Channel Width	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)		N/A	
Nominal Receive Sensitivity @20 MHz Channel	-91dBm (MCS0) TO -57dBm (MCS9)			
Nominal Receive Sensitivity @40 MHz Channel	-83dBm (MCS0) TO -57dBm (MCS9)			
Nominal Receive Sensitivity @80 MHz Channel	-76dBm (MCS0) TO -51dBm (MCS9)			

Model	RG-AirMetro550G-B	RG-ANT13-360	RG-ANT16S-120	RG-ANT20S-90
Modulation Levels (Adaptive)	MCS0(BPSK)to MCS9 (256QAM)			
Wi-Fi Protocols (2.4 GHz)	Wi-Fi 4 (IEEE 802.11b/g/n)			
Wi-Fi Protocols (5 GHz)	Wi-Fi 5 (IEEE 802.11ac)			
Wireless Data Rate	867 Mbps			
Wireless Data Rate (5 GHz)	867 Mbps			
Frequency Bands	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 5.850 GHz Note: Country-specific restrictions apply.		N/A	
2.4 GHz Max. Transmit Power	20 dBm			
5 GHz Max. Transmit Power	26 dBm			
Surge Protection	Common mode: ±6 kV Differential mode: ±2 kV			
Dimensions (W x D x H)	200 mm x 98.5 mm x 29 mm (7.87 in. x 3.88 in. x 1.14 in.) (without bracket)	521 mm x 120 mm x 82 mm (20.51 in. x 4.72 in. x 3.22 in.) (excluding mounting bracket)	361 mm x 110 mm x 48.5 mm (14.21 in. x 4.33 in. x 1.91 in.) (excluding mounting bracket)	694 mm x 139.9 mm x 48.9 mm (27.32 in. x 5.51 in. x 1.93 in.) (excluding mounting bracket)
Weight	0.68 kg	2.35 kg	2.5 kg	4.5 kg
Number of Fixed LAN Ports	2		N/A	
Max. LAN Port Rate	1000 Mbps	No	No	No
Number of 10/100/1000BASE-T Ports	2			
Reset	Yes		N/A	
Status LED	Yes			

Model	RG-AirMetro550G-B	RG-ANT13-360	RG-ANT16S-120	RG-ANT20S-90			
Power Supply	24 V passive PoE/12 V DC	N/A					
Local Power Supply	Yes						
PoE Out	No						
Supported PoE Standards	No Note: Passive PoE input.						
Antenna Shape	N/A	Cylindrical antenna	Panel antenna	Panel antenna			
Antenna Type	Built-in antenna (horizontal/vertical): 90°/7°, 120°/10°, 360°/7°	N/A					
Hardware Button	1 x reset button						
DC Power Connector Size	Inner Diameter: 2.10 ± 0.05 mm (0.08 ± 0.002 in.) Outer Diameter: 5.50 ± 0.05 mm (0.22 ± 0.002 in.) Depth: 9 mm (0.35 in.)						
DC Voltage/Current	12 V/1 A						
LEDs	1 x system LED 2 x port LEDs 3 x signal strength LEDs	N/A					
2.4 GHz Antenna Gain	3 dBi				No	No	No
5 GHz Antenna Gain	No				13 dBi	16 dBi	20 dBi
Power Consumption	<12W				N/A		
IP Rating	IP55	IP55	IP55	IP55			
Color	Standard: Elegant white	Standard: Elegant white	Standard: Elegant white	Standard: Elegant white			
Operating Temperature	Operating temperature: -30°C to +65°C (-22°F to +149°F) (-40°C to +80°C [-40°F to +176°F] in publicity materials)	Operating temperature: -40°C to +80°C (-40°F to +176°F)	Operating temperature: -40°C to +80°C (-40°F to +176°F)	Operating temperature: -40°C to +80°C (-40°F to +176°F)			
Storage Temperature	Storage temperature: - 40°C to +85°C (-22°F to +185°F)	Storage temperature: - 40°C to +85°C (-40°F to +185°F)	Storage temperature: - 40°C to +85°C (-40°F to +185°F)	Storage temperature: - 40°C to +85°C (-40°F to +185°F)			

Model	RG-AirMetro550G-B	RG-ANT13-360	RG-ANT16S-120	RG-ANT20S-90
Operating Humidity	Operating humidity: 5% to 95% RH (non-condensing)	Operating humidity: 5%-95% (non-condensing)	Operating humidity: 5%-95% (non-condensing)	Operating humidity: 5%-95% (non-condensing)
Storage Humidity	Storage humidity: 5% to 95% RH (non-condensing)	Storage humidity: 5%-95% (non-condensing)	Storage humidity: 5%-95% (non-condensing)	Storage humidity: 5%-95% (non-condensing)
MTBF	> 400000 hours	> 400000 hours	> 400000 hours	> 400000 hours
Working Distance	15 km	2 km	5 km	10 km
Bridging Performance	200 Mbps/1 km (HT40) 180 Mbps/3 km (HT40) 100 Mbps/5 km (HT40) (Compared with competing products)			
RSSI (dBm)	-60/1 km -68/3 km -75/5 km (Compared with competing products; antenna gain 13 dBi or higher)			
Throughput & Camera Limits: 3 MP	35/1 km 30/3 km 16/5 km			
Throughput & Camera Limits: 4 to 5 MP	20/1 km 16/3 km 10/5 km			
Throughput & Camera Limits: 6 to 7 MP	15/1 km 12/3 km 6/5 km			
Throughput & Camera Limits: 7 to 8 MP	10/1 km 8/3 km 5/5 km			
Management Radio	2.412G~2.472GHz			
Number of PtMP Links	32			
ESD Protection	Tolerance:±24 k Contact/ Air			

Model	RG-AirMetro550G-B	RG-ANT13-360	RG-ANT16S-120	RG-ANT20S-90
Certification	CE	N/A		
Software Features				
Operating Mode	Base Station/CPE			
Channel Spacing	20 MHz			
TDMA	Fixed Mode/Flexible Mode			
WLAN Security	WPA2-PSK			
Management SSID	@Ruijie-bxxxx			
SSID Hiding	Yes			
Spectrum Scan	Yes			
Antenna Alignment	Yes			
One-Touch Pairing	Yes			
WMM	Yes			
Storm Control	Yes			
VLAN Packet Transmit	Yes			
DHCP Server	Yes			
DHCP Client	Yes		N/A	
Network Diagnostics	Ping/TraceRoute/Dns			
Time & Date	Yes			
Firmware Upgrade	Yes			
Backup/Restore	Yes			
Cloud Management	Yes			
Power Configuration	Yes			
Country/Region Code	Yes			
Remote Restart	Yes			
SON	Self-organizing Networking with Bridges			
SNMP	Yes			
Link Aggregation	No			
Throughput & Camera Limits	Reference performance recommendation table			

Model	RG-AirMetro550G-B	RG-ANT13-360	RG-ANT16S-120	RG-ANT20S-90
Ping	Yes			
Traceroute	Yes		N/A	
AI Heatmap	Yes			

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Package Contents

Model	RG-AirMetro550G-B	RG-ANT13-360	RG-ANT16S-120	RG-ANT20S-90
Wireless Bridge/Antenna	1	1	1	1
PoE Injector	1	N/A	N/A	N/A
DC Power Adapter	0	0	0	0
Mounting Bracket	0	N/A	N/A	N/A
Gross Weight	0.68Kg	2.35Kg	2.5Kg	4.5Kg
Package Dimensions (W x D x H)	200 mm x 98.5 mm x 29 mm (7.87 in. x 3.88 in. x 1.14 in.) (without bracket)	905*155*115 mm	430*170*150mm	750*195*165mm

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 **Redefine your easy network**

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