



RG-AirMetro550G-B Base Station of RG-AirMetro Series Wireless Bridges



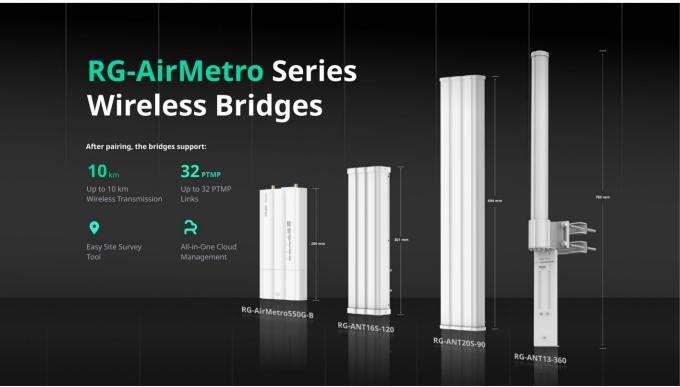
Highlights

- · Up to 10 km Wireless Transmission Distance
- MAX. 1:32 PTMP Links, Easy Pairing in 30 sec
- 2 x GE Ports: More Possibilities of Connections
- 24 V Passive PoE and 12 V DC Input: Solar Power Supply
- ullet IP55, 6 kV Surge Protection and \pm 24 kV ESD against Harsh Environment
- All-in-one Cloud Management Simplifies the User Journey

Date: 2025.10.16

Highlight Features



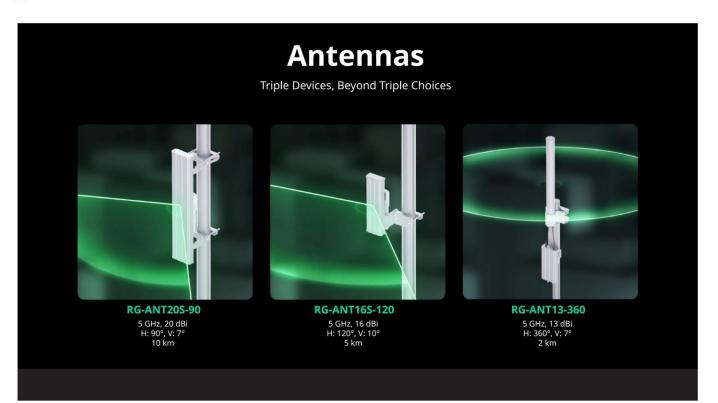


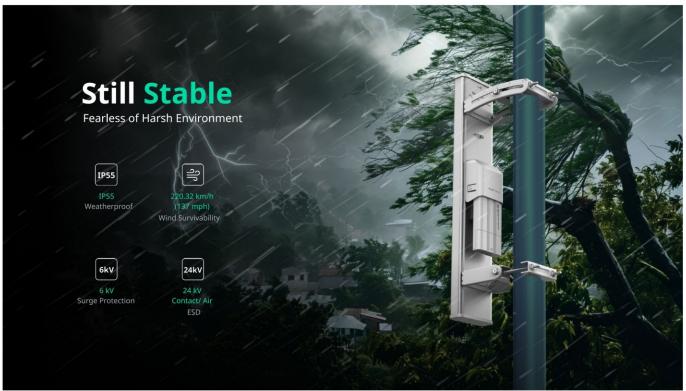
/ Highlight Features



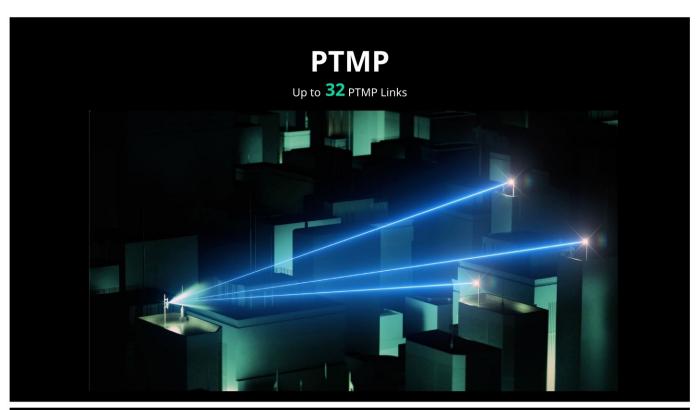


Highlight Features





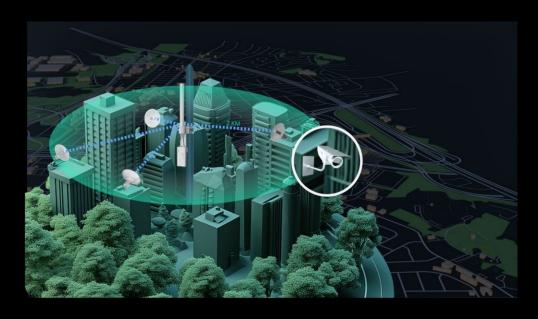
/ Highlight Features





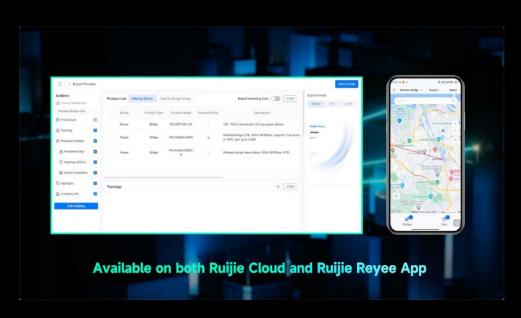
CCTV

Affordable Excellence and Smooth Surveillance

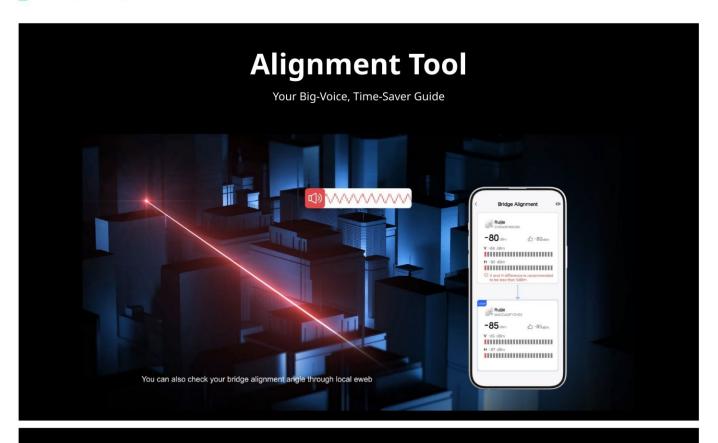


AI Heatmap for Bridge

Your Real Outdoor Adventure Companion



Highlight Features



Spectrum Scan and Link Optimization

Thumbs-Up Guide



Available on both Ruijie Cloud and Ruijie Reyee App

/ Highlight Features



/ Product Information

Model	RG-AirMetro550G-B
Product Type	Bridge
Accessory	No

| Hardware Specifications

Model	RG-AirMetro550G-B
Applicable Scenarios	
Applicable Scenarios	CCTV/WISP
	Wi-Fi Radio
Radio design	Dual-radio 3 spatial streams • Radio 1: 2.4 GHz, 1 spatial stream: 1 x 1, SISO • Radio 2: 5 GHz, 2 spatial streams: 2 x 2, MIMO
Operating band	IEEE 802.11b/g/n: 2.400 GHz to 2.483 GHz IEEE 802.11a/n/ac: 5.150 GHz to 5.350 GHz IEEE 802.11a/n/ac: 5.470 GHz to 5.725 GHz IEEE 802.11a/n/ac: 5.725 GHz to 5.850 GHz Note: Available bands vary with countries and regions. To use the preceding frequency bands, ensure that your country or region supports these frequency bands. For details, see Channels for Countries & Regions (official website link to be added).
Wi-Fi standard	Wi-Fi 5 (IEEE 802.11ac) standard, compatible with IEEE 802.11a/b/g/n standards
2.4 GHz Wi-Fi	Wi-Fi 4 (IEEE 802.11b/g/n)
5 GHz Wi-Fi	Wi-Fi 5 (IEEE 802.11ac)
2.4 GHz channel width	Auto/20/40 MHz
5 GHz channel width	Auto/20/40/80 MHz
Transmission rate	Maximum wireless data rate: 1166 Mbps • Radio 1: 2.4 GHz, 300 Mbps • Radio 2: 5 GHz, 866 Mbps
Maximum transmit power	2.4 GHz: 20 dBm (single-stream power: 20 dBm) 5 GHz: 29 dBm (single-stream power: 26 dBm)

/ Hardware Specifications

Model	RG-AirMetro550G-B
	Note: The transmit power varies according to regulations in different countries and regions.
Receive sensitivity	802.11b: -91 dBm (1 Mbps), -88 dBm (5 Mbps), -85 dBm (11 Mbps) 802.11a/g: -89 dBm (6 Mbps), -80 dBm (24 Mbps), -76 dBm (36 Mbps), -71 dBm (54 Mbps) 802.11n: -83 dBm@MCS0, -65 dBm@MCS7, -83 dBm@MCS8, -65 dBm@MCS15 802.11ac HT20: -83 dBm (MCS0), -57 dBm (MCS9) 802.11ac HT40: -79 dBm (MCS0), -54 dBm (MCS9) 802.11ac HT80: -76 dBm (MCS0), -51 dBm (MCS9)
Modulation	802.11b: BPSK, QPSK, CCK 802.11a/g/n: BPSK, QPSK, 16-QAM, 64-QAM 802.11ac: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM
Highest QAM order	256
Antenna	
Antenna	2.4 GHz: 1 x 1 Built-in omnidirectional antenna Note: The 2.4 GHz band is used for device management. External antennas are required for data transmission between bridges.
Antenna gain (2.4 GHz)	3 dBi
Third-party antenna	Yes
Sy	stem Specifications
CPU	Dual-core processor, 880 MHz clock frequency per core
Flash memory	16 MB
RAM	128 MB DDR3
Dir	nensions and Weight
Weight	0.31 kg (0.68 lbs) (without packaging materials)
Shipping weight	0.68 kg (1.5 lbs)
Product 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.) (excluding mounting bracket)
Package dimensions (W x D x H)	255 mm x 209.5 mm x 61 mm (10.04 in. x 8.25 in. x 2.40 in.)
Color	Elegant white

/ Hardware Specifications

Model	RG-AirMetro550G-B
Port Specifications	
Number of fixed LAN ports	2
Number of 10/100/1000BASE-T ports	2
Reset button	1
LEDs	1 x system status LED 2 x Ethernet port LEDs 3 x signal status LEDs
Power Supply and Consumption	
Power supply	Power supply options: • DC power adapter • Passive PoE adapter
Power input	Passive PoE adapter: Rated input voltage: 100 V AC to 240 V AC, 50 Hz to 60 Hz Rated input current: 0.5 A Max Rated output voltage: 24 V DC Maximum output current: 0.6 A
Number of PoE In ports	1
Local power supply	Yes, one DC power connector (12 V, 1 A)
Dimensions of the DC connector	Outer Diameter: 5.50 mm \pm 0.05 mm (0.22 in. \pm 0.002 in.) Inner Diameter: 2.10 mm \pm 0.05 mm (0.08 in. \pm 0.002 in.) Depth: 9 mm (0.35 in.)
Maximum power consumption	12 W
Envi	ronment and Reliability
Mounting options	Pole
Operating temperature	-40°C to +80°C (-40°F to +176°F)
Storage temperature	-40°C to +85°C (-22°F to +185°F)
Operating humidity	5% RH to 95% RH (non-condensing)
Storage humidity	5% RH to 95% RH (non-condensing)
Altitude	Operating altitude: -500 m to +5,000 m (-1,640.42 ft. to +16,404.20 ft.) Storage altitude: -500 m to +5,000 m (-1,640.42 ft. to +16,404.20 ft.)

/ Hardware Specifications

Model	RG-AirMetro550G-B
MTBF	400,000 hours (about 45 years)
Cooling	Natural cooling
IP rating	IP55
ESD protection	Standard test: contact discharge=24 kV, air discharge=24 kV, Class B
Surge protection	Service port: ±6 kV for common mode Power connector: ±4 kV for common mode and ±2 kV differential mode
Certification and Regulatory Compliance	
Safety compliance	EN62368-1
EMC	EN 55032 EN 55035 EN 61000-3-3 EN 61000-3-2 EN 301489-1 EN 301489-3 EN 301489-17
Certification	CE, FCC, CB, ISED, cTUVus

Model	RG-AirMetro550G-B
	WLAN
BaseStation/CPE mode switching	Yes
Enhanced one-to-many transmission (TDMA)	Yes
Bridge SSID hiding	Yes
WPA2-PSK encryption	Yes
WPA-PSK encryption	No
WPA/WPA2-PSK encryption	No
Recommended channel	Yes
Bridge speed test	Yes
Random security key upon configuration delivery	No
Configuring a security key for network-wide bridges	Yes
Configuring a security key for a single bridge group	Yes
Configuring a security key for a single bridge	Yes
Bridge SSID, channel, and power configuration	Yes
WMM	Yes
Maximum PTMP connections	32
Maximum bridge distance	2 km (1.24 miles) (installing the device on the RG-ANT13-360) 5 km (3.11 miles) (installing the device on the RG-ANT16S-120) 10 km (6.21 miles) (installing the device on the RG-ANT20S-90)
One-touch pairing	Yes
Maximum effective distance of one- touch pairing	5 m (16.4 ft.)
Bridge performance	Installing the device on the RG-ANT13-360: 179 Mbps/1 km (0.62 miles) (HT40) 111 Mbps/2 km (1.24 miles) (HT40) Installing the device on the RG-ANT16S-120: 204 Mbps/1 km (0.62 miles) (HT40)

Model	RG-AirMetro550G-B
	153 Mbps/3 km (1.86 miles) (HT40) 94 Mbps/5 km (3.11 miles) (HT40) Installing the device on the RG-ANT20S-90: 204 Mbps/3 km (1.86 miles) (HT40) 153 Mbps/5 km (3.11 miles) (HT40) 77 Mbps/10 km (6.21 miles) (HT40)
RSSI	Installing the device on the RG-ANT13-360: 41dBm/1 km (0.62 miles) 26 dBm/2 km (1.24 miles) Installing the device on the RG-ANT16S-120: -58 dBm/1 km (0.62 miles) (HT40) -66 dBm/3 km (1.86 miles) (HT40) -72 dBm/5 km (3.11 miles) (HT40) Installing the device on the RG-ANT20S-90: -60 dBm/3 km (1.86 miles) (HT40) -66 dBm/5 km (3.11 miles) (HT40) -73 dBm/10 km (6.21 miles) (HT40)
Recommended number of connected cameras (3 Mbps)	Installing the device on the RG-ANT13-360: 41/1 km (0.62 miles) 26/2 km (1.86 miles) Installing the device on the RG-ANT20S-120: 47/1 km (0.62 miles) 35/3 km (1.86 miles) 22/5 km (3.11 miles) Installing the device on the RG-ANT20S-90: 47/3 km (1.86 miles) 35/5 km (3.11 miles) 18/10 km (6.21 miles)
Recommended number of connected cameras (4 – 5 Mbps)	Installing the device on the RG-ANT13-360: 25/1 km (0.62 miles) 15/2 km (1.24 miles) Installing the device on the RG-ANT16S-120: 28/1 km (0.62 miles) 21/3 km (1.86 miles) 13/5 km (3.11 miles) Installing the device on the RG-ANT20S-90: 28/3 km (1.86 miles) 21/5 km (3.11 miles) 10/10 km (6.21 miles)
Recommended number of connected cameras (6 – 7 Mbps)	Installing the device on the RG-ANT13-360: 18/1 km (0.62 miles) 11/2 km (1.24 miles) Installing the device on the RG-ANT16S-120: 20/1 km (0.62 miles)

Model	RG-AirMetro550G-B
	15/3 km (1.86 miles) 9/5 km (3.11 miles) Installing the device on the RG-ANT20S-90: 28/3 km (1.86 miles) 21/5 km (3.11 miles) 10/10 km (6.21 miles)
Recommended number of connected cameras (7-8 Mbps code streams)	Installing the device on the RG-ANT13-360: 15/1 km (0.62 miles) 9/2 km (1.24 miles) Installing the device on the RG-ANT16S-120 17/1 km (0.62 miles) 13/3 km (1.86 miles) 8/5 km (3.11 miles) Installing the device on the RG-ANT20S-90: 17/3 km (1.86 miles) 13/5 km (3.11 miles) 6/10 km (6.21 miles)
Real-time signal strength	Yes
Optimal signal strength	Yes
Active/Standby channel	Yes
Restoring to the active channel	Yes
Maximum number of devices on the SON	200
	Basic Configurations
eWeb login with the username and password	Yes
Local upgrade	Yes
Configuration backup	Yes
System language	Chinese (Simplified), English
System time settings	Yes
Ethernet Switching	
Interface rate	10/100/1000 Mbps auto-negotiation
VLAN	Yes

Model	RG-AirMetro550G-B
Link aggregation	No
	IP Service
IPv4 ping	Yes
IPv4 traceroute	Yes
DHCP server	Yes
DHCP client	Yes
Security	
Broadcast storm control	Yes
Network Management and Monitoring	
SON	Yes
AI heatmap	Yes
Camera detection	No
Network-wide management SSID configuration	Yes
Network connection through the management SSID	No
Ruijie Cloud management	Yes
Restarting devices through Ruijie Reyee App	Yes
SNMPv1, v2c, and v3	Yes
Fault diagnosis	Yes Note: support for network tools (ping, traceroute, and nslookup), fault alarms, and fault collection
Restart cause prompt	Yes
Disconnection cause prompt	Yes
Cloud alarms on DFS signal detection	Yes

| Package Contents

Model	RG-AirMetro550G-B
Device	
Device	1
	Accessories
Power adapter	1 Note: 24 V passive PoE adapter
Power cord	39.37 in. x 1
Manual	
User Manual	1
Warranty Card	1

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