

# CPE of RG-AirMetro Series Wireless Bridges for PTMP

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

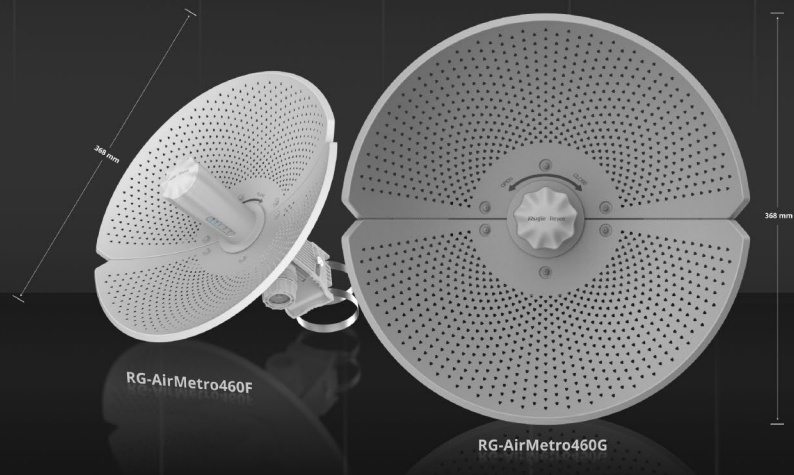
Up to 32 PTMP  
Links



Easy Site Survey  
Tool



All-in-One Cloud  
Management



# Highlight Features

## CPE

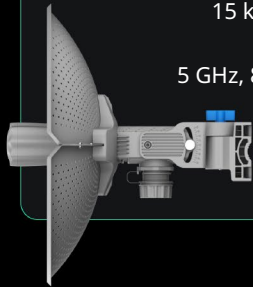
Mix freely for Various Scenarios

### RG-AirMetro460G

1 x 10/100/1000 Mbps Port

15 km, 23 dBi

5 GHz, 867 Mbps

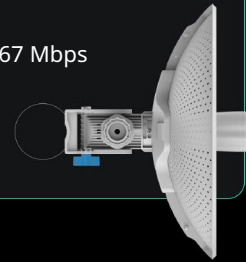


### RG-AirMetro460F

1x 10/100 Mbps Port

15 km, 23 dBi

5 GHz, 867 Mbps



## Signal Enhancement

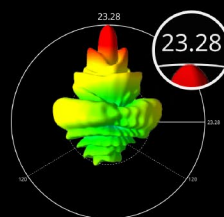
The Secret of Circular Grace

### Compared with Square Antenna:

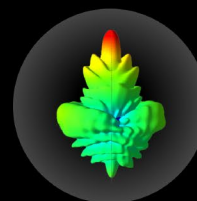
The **total gain** of the circular is **increased**;

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.

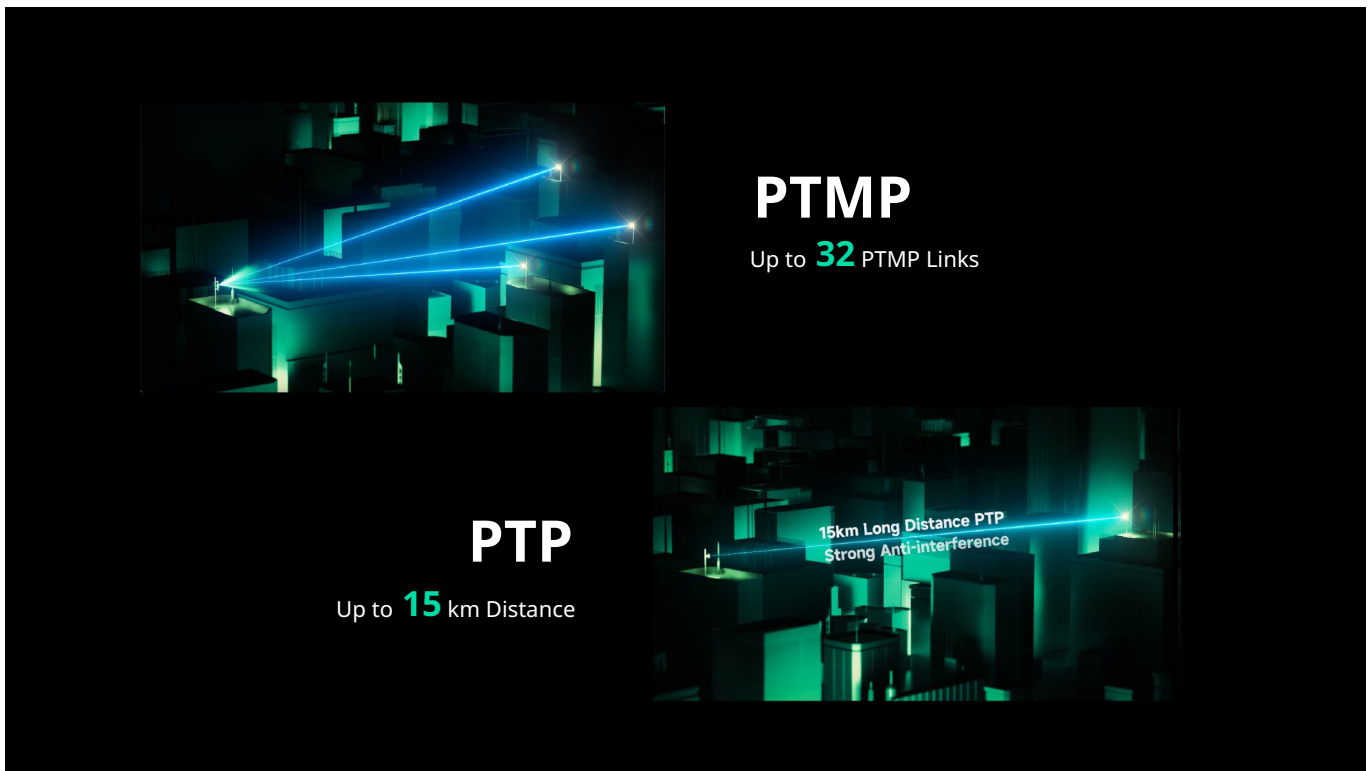
## Highlight Features



### Still Stable


Fearless of Harsh Environment

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



### PTMP

Up to **32** PTMP Links



### PTP

Up to **15** km Distance

15km Long Distance PTP  
Strong Anti-interference

# Highlight Features

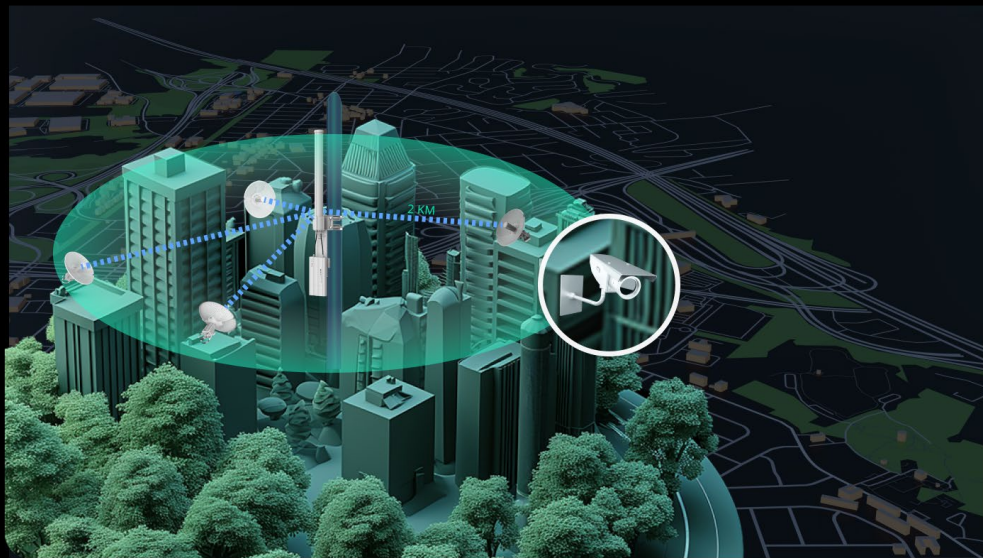
## WISP

Extensive Transmission Without Fiber Connections



## CCTV

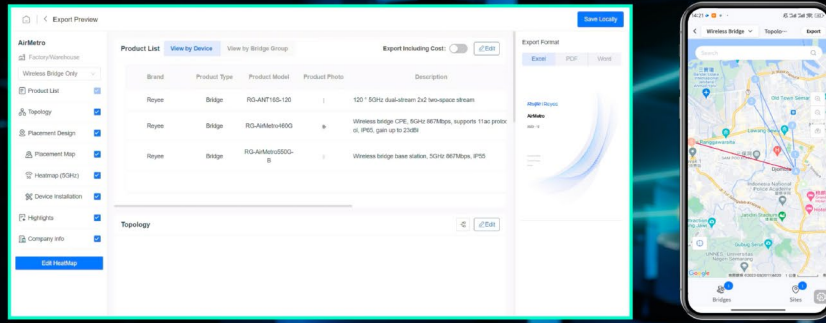
Affordable Excellence and Smooth Surveillance



## Highlight Features

# AI Heatmap for Bridge

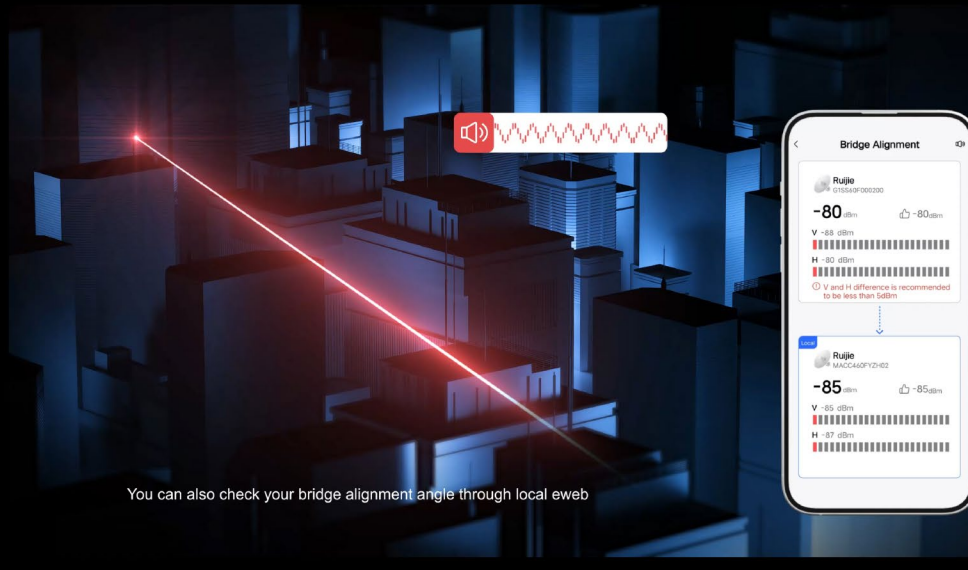
Your Real Outdoor Adventure Companion



Available on both Ruijie Cloud and Ruijie Reye App

# Bridge Alignment Tool

Your Big-Voice, Time-Saver Guide

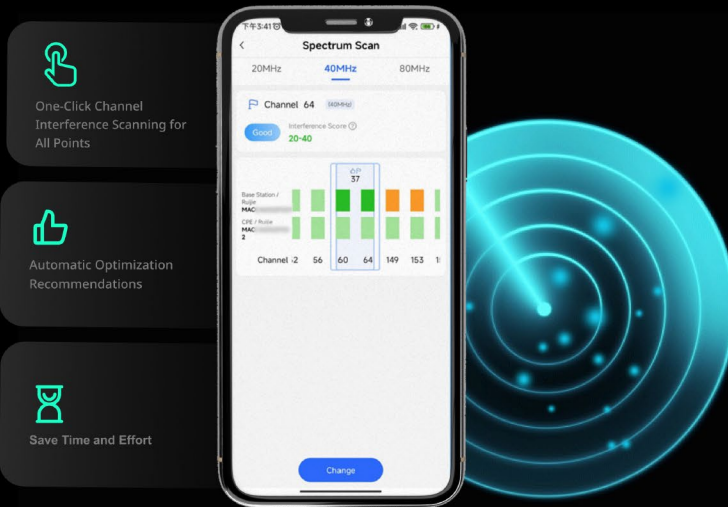


You can also check your bridge alignment angle through local eweb

## Highlight Features

# Spectrum Scan and Link Optimization

Thumbs-Up Guide



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

## CPE

Specification	RG-AirMetro460G	RG-AirMetro460F
<b>Basic Features</b>		
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

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.)

Frequency Range*	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
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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 Sizes	20/40/80Mhz	
Default login IP	10.44.77.254	
Default Login Username	admin	
Default Login Password	admin	
TDMA	Fixed Mode/Flexible Mode	
WLAN SECURITY	WPA2-PSK	
Manage SSID	@Ruijie-bxxxx	
SSID Hidden	✓	
Spectrum Analysis	✓	
Alignment Tools	✓	
One-Touch Pairing	✓	
WMM	✓	
Storm Control	✓	
VLAN Packet Transmit	✓	
DHCP Server	✓	
Network Diagnoses	Ping/TraceRoute/Dns	
TIME&Date Setting	✓	
Firmware Upgrade	✓	
Backup/Restore Configuration	✓	

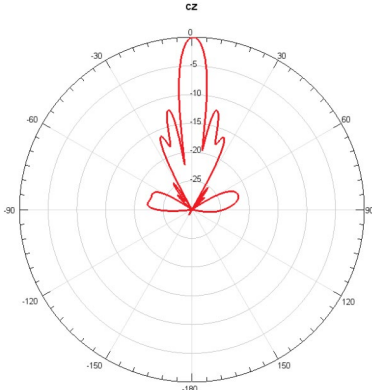
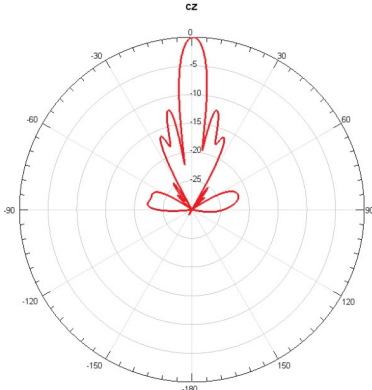
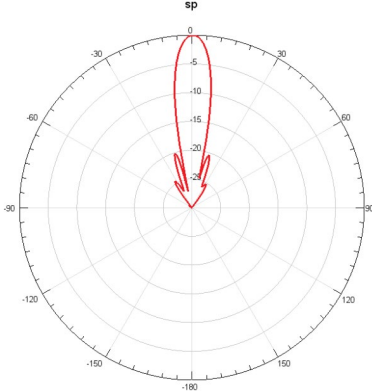
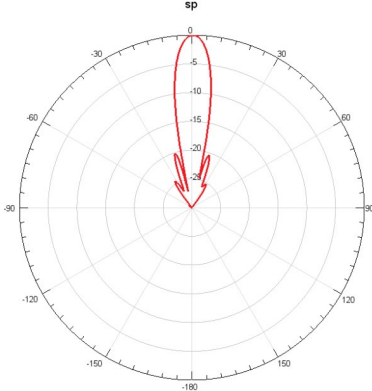
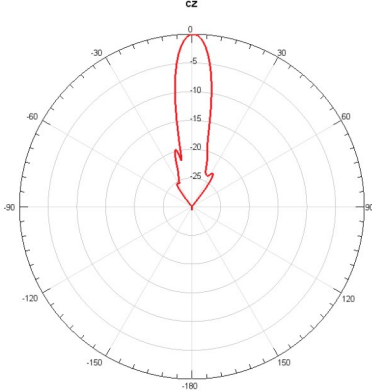
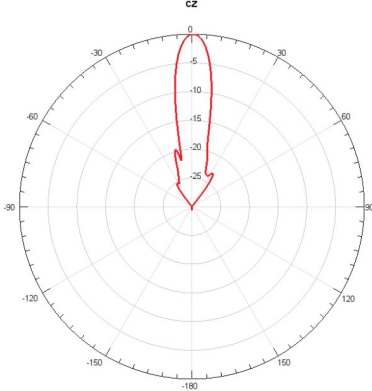
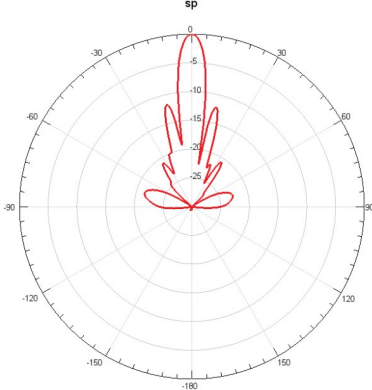
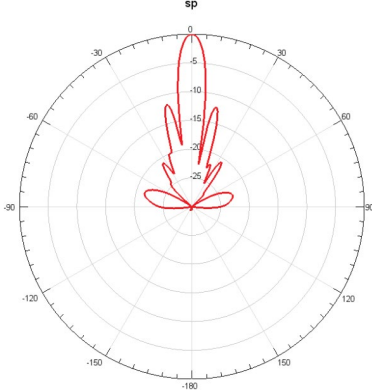
# Specifications

## Hardware Features

Specification	RG-AirMetro460G	RG-AirMetro460F
Manage By Cloud		✓
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	

# Specifications

## Antenna Pattern

Specification	RG-AirMetro460G	RG-AirMetro460F
V Port (Vertically Polarization) Vertical Pattern	 <p>The radiation pattern for the V Port (Vertically Polarization) Vertical Pattern of the RG-AirMetro460G antenna is shown in a polar plot. The plot is labeled 'cz' at the top. The vertical axis represents the angle in degrees, ranging from 0 at the top to 180 at the bottom, with major ticks every 30 degrees. The horizontal axis represents the azimuth angle, ranging from -180 to 180 degrees, with major ticks every 30 degrees. The plot shows a main lobe pointing upwards (0 degrees) and a smaller lobe pointing downwards (180 degrees). The side lobes are minimal.</p>	 <p>The radiation pattern for the V Port (Vertically Polarization) Vertical Pattern of the RG-AirMetro460F antenna is shown in a polar plot. The plot is labeled 'cz' at the top. The vertical axis represents the angle in degrees, ranging from 0 at the top to 180 at the bottom, with major ticks every 30 degrees. The horizontal axis represents the azimuth angle, ranging from -180 to 180 degrees, with major ticks every 30 degrees. The plot shows a main lobe pointing upwards (0 degrees) and a smaller lobe pointing downwards (180 degrees). The side lobes are minimal.</p>
V port (vertically Polarization) Horizontal Pattern	 <p>The radiation pattern for the V port (vertically Polarization) Horizontal Pattern of the RG-AirMetro460G antenna is shown in a polar plot. The plot is labeled 'sp' at the top. The vertical axis represents the angle in degrees, ranging from 0 at the top to 180 at the bottom, with major ticks every 30 degrees. The horizontal axis represents the azimuth angle, ranging from -180 to 180 degrees, with major ticks every 30 degrees. The plot shows a main lobe pointing downwards (180 degrees) and a smaller lobe pointing upwards (0 degrees). The side lobes are minimal.</p>	 <p>The radiation pattern for the V port (vertically Polarization) Horizontal Pattern of the RG-AirMetro460F antenna is shown in a polar plot. The plot is labeled 'sp' at the top. The vertical axis represents the angle in degrees, ranging from 0 at the top to 180 at the bottom, with major ticks every 30 degrees. The horizontal axis represents the azimuth angle, ranging from -180 to 180 degrees, with major ticks every 30 degrees. The plot shows a main lobe pointing downwards (180 degrees) and a smaller lobe pointing upwards (0 degrees). The side lobes are minimal.</p>
H Port (Horizontal Polarization) Vertical Pattern	 <p>The radiation pattern for the H Port (Horizontal Polarization) Vertical Pattern of the RG-AirMetro460G antenna is shown in a polar plot. The plot is labeled 'cz' at the top. The vertical axis represents the angle in degrees, ranging from 0 at the top to 180 at the bottom, with major ticks every 30 degrees. The horizontal axis represents the azimuth angle, ranging from -180 to 180 degrees, with major ticks every 30 degrees. The plot shows a main lobe pointing downwards (180 degrees) and a smaller lobe pointing upwards (0 degrees). The side lobes are minimal.</p>	 <p>The radiation pattern for the H Port (Horizontal Polarization) Vertical Pattern of the RG-AirMetro460F antenna is shown in a polar plot. The plot is labeled 'cz' at the top. The vertical axis represents the angle in degrees, ranging from 0 at the top to 180 at the bottom, with major ticks every 30 degrees. The horizontal axis represents the azimuth angle, ranging from -180 to 180 degrees, with major ticks every 30 degrees. The plot shows a main lobe pointing downwards (180 degrees) and a smaller lobe pointing upwards (0 degrees). The side lobes are minimal.</p>
H Port (Horizontal Polarization) Horizontal Pattern	 <p>The radiation pattern for the H Port (Horizontal Polarization) Horizontal Pattern of the RG-AirMetro460G antenna is shown in a polar plot. The plot is labeled 'sp' at the top. The vertical axis represents the angle in degrees, ranging from 0 at the top to 180 at the bottom, with major ticks every 30 degrees. The horizontal axis represents the azimuth angle, ranging from -180 to 180 degrees, with major ticks every 30 degrees. The plot shows a main lobe pointing downwards (180 degrees) and a smaller lobe pointing upwards (0 degrees). The side lobes are minimal.</p>	 <p>The radiation pattern for the H Port (Horizontal Polarization) Horizontal Pattern of the RG-AirMetro460F antenna is shown in a polar plot. The plot is labeled 'sp' at the top. The vertical axis represents the angle in degrees, ranging from 0 at the top to 180 at the bottom, with major ticks every 30 degrees. The horizontal axis represents the azimuth angle, ranging from -180 to 180 degrees, with major ticks every 30 degrees. The plot shows a main lobe pointing downwards (180 degrees) and a smaller lobe pointing upwards (0 degrees). The side lobes are minimal.</p>

# 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

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