

RG-AirMetro460G

High-performance Wireless CPE / Bridge for Long-Distance Transmission

Key Features Highlight: 15+ km Operating Distance | 5 GHz, 867 Mbps Rate | Cloud Site Survey Tools | Dedicated Management Wi-Fi

HARDWARE SPECIFICATIONS

CPU	Dual-core processor, 880 MHz per core
RAM	128 MB DDR3
Flash Memory	16 MB
Ethernet Port	1 x 10/100/1000Base-T Port (GE)
LED Indicators	1 x System Status, 1 x Ethernet, 3 x Signal Status
Hardware Buttons	1 x Reset button
Dimensions	368.5 mm x 368.5 mm x 271 mm (Fully installed)
Weight	0.20 kg (Device only) / 2.33 kg (Including mounting kit)

RF & WIRELESS SPECIFICATIONS

Operating Frequency	Radio 1: 2.4 GHz (Dedicated local management Wi-Fi) Radio 2: 5 GHz (IEEE 802.11a/n/ac for data link)
Spatial Streams	2.4 GHz: 1x1 SISO 5 GHz: 2x2 MIMO
Max Wireless Rate	Up to 1166 Mbps (867 Mbps at 5 GHz + 300 Mbps at 2.4 GHz)
Antenna Gain	5 GHz: Built-in parabolic feed with 23 dBi directional gain 2.4 GHz: 3 dBi omnidirectional
Antenna Beamwidth	9° Horizontal / 9° Vertical
Max Transmit Power	Up to 29 dBm at 5 GHz

OPERATIONAL PERFORMANCE

- **Max Distance:** Up to 15+ km in PtP setups (under optimal line-of-sight conditions).
- **PtMP Capacity:** Supports up to 32 PtMP client CPEs.

POWER & ENVIRONMENT

- **Power Supply:** 24 V Passive PoE (includes 24V, 0.5A PoE Injector).
- **Power Consumption:** < 12 W.

- **Expected PtP Throughput (HT40):**
 - 1 km: ~230 Mbps
 - 3 km: ~200 Mbps
 - 5 km: ~150 Mbps
 - 10 km: ~80 Mbps
- **Ingress Protection:** IP65 Weatherproof rating.
- **Operating Temp:** –40°C to +70°C.
- **Wind Survivability:** 220.32 km/h (137 mph).
- **Surge Protection:** 6 kV common mode protection; ESD: ±24 kV.

KEY SOFTWARE FEATURES

- **One-Touch Pairing:** Support for effortless 30-second pairing via a physical hardware button without requiring GUI access.
- **Cloud Management:** Fully integrated with Ruijie Cloud Platform/App for free remote network monitoring, configuration, and diagnostics.
- **Built-in Deployment Tools:** Advanced diagnostics including Spectrum Scan, Link Optimization, Bridge Alignment assistant, Ping, Traceroute, and DNS troubleshooting.