

AirEther™ CB54 Series

2.4 GHz Long Range Wireless Client Bridge IP67 All Weather Certified Enclosure

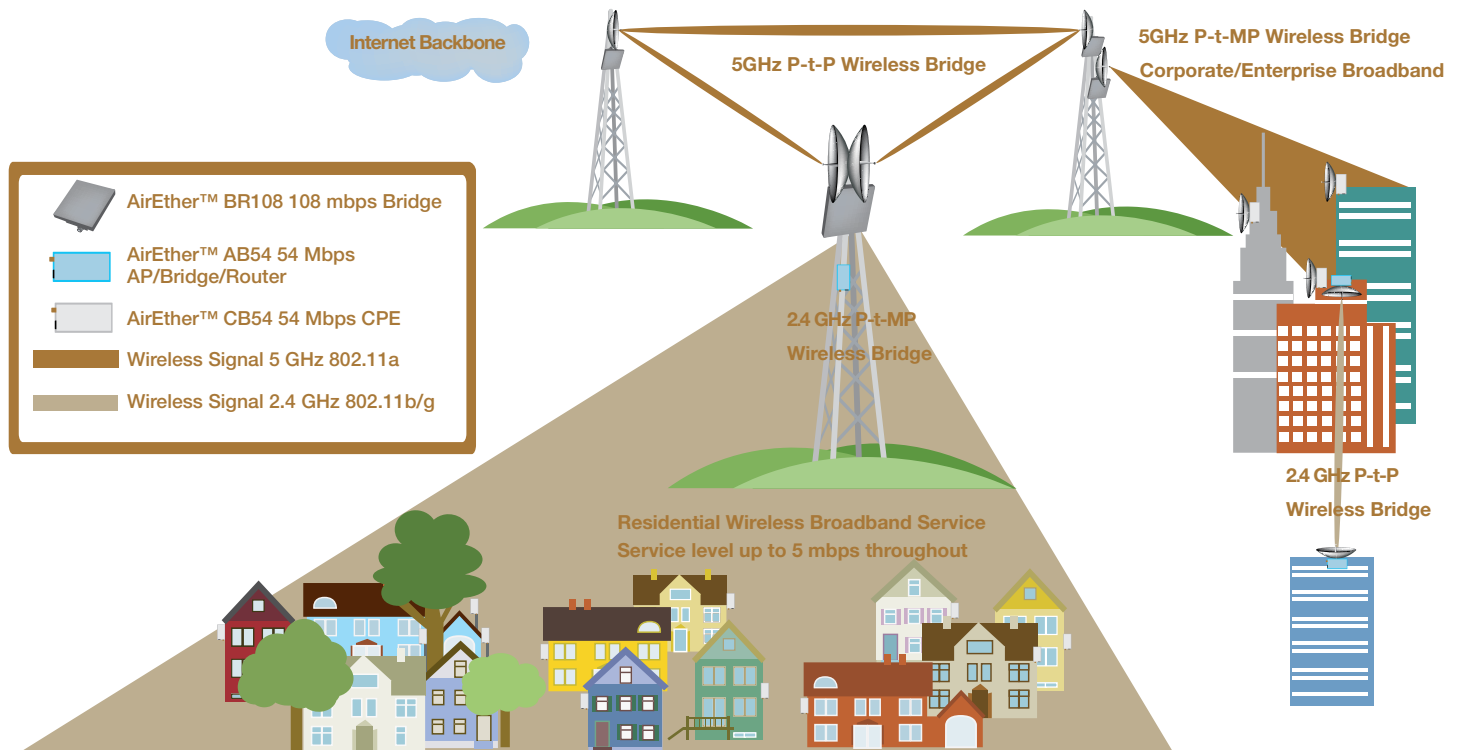
The AirEther™ CB54 and CB54E are low cost outdoor residential Customer Premise Equipments (CPE), and the products are manufactured with an IP67 certified weatherproof enclosure for Near Line of Sight conditions. The radio performance of the AirEther CB54, CB54E, and CB5418 are designed and optimized for long range and high throughput wireless communications based on the IEEE 802.11 b/g standards.

The AirEther CB54 and CB54E Outdoor Wireless Client Bridges offer a high performance, robust, and extensive wireless coverage area that is an ideal outdoor Wireless Client Bridge solution for operating in a bridge-to- bridge mode and supporting point-to-point topology for the following environments:

- Airports
- Campus
- Building to Building
- Security & Surveillance
- Marinas
- Convention Centers
- Stadiums
- RV Parks
- Public Parks
- Beaches

Features and Benefits

- The AirEther CB54 is designed with a built in 12 dBi directional panel antenna on the front of the housing for cost savings
- Supports WPA and WPA-PSK with AES and TKIP, 152-bit encryption for the highest data security
- Compliant to the IEEE 802.11 b/g standards, DSSS for 802.11b mode radio operations and OFDM technology for 802.11g mode radio operations, and support Super G mode for up to 108 Mbps of data rate
- Built in site survey and management tools for simplify installations and operations of wireless system
- The AirEther CB54E offers an external N-Female antenna for use with antennas such as a more flexible high gain omni directional antenna or a more narrow beam width sector antenna
- IP Installer management software with user friendly GUI for easy configuration of the Customer Premise Equipment (CPE), such as factory default setting, IP address setting, and wireless setting
- Adjustable Tx power for optimal long range radio performance
- Easy to install with cost effective Power over Ethernet (PoE)
- Allow either vertical or horizontal antenna polarity alignment
- Swivel mounting accessories provide an out-of-the-box solution for quick and easy installation
- Low profile enclosure designed for minimum wind resistance
- Fully weatherized outdoor unit operates in temperatures ranging from -22°F to +180°F (-30°C to +70°C)



AirEther™ CB54 Series

Technical Specifications

	CB54	CB54E
Standards Compliance		
IEEE 802.11b/g	●	●
IEEE 802.3, IEEE 802.3u	●	●
Modulation		
IEEE802.11b: CCK,DQPSK,DBPSK	●	●
IEEE802.11g: OFDM	●	●
Frequency Band		
America/FCC : 2.412~2.462 GHz (11 channels)		
Europe CE/ETSI : 2.412~2.472 GHz (13 channels)	●	●
Japan : 2.412~2.484 GHz (14 channels)		
Transmission Power		
EIRP (dBi) (adjustable) CE	20dBm	20dBm
Transmission Rate		
IEEE802.11b: 1/2/5.5/11Mbps	●	●
IEEE802.11g: 6/9/12/18/24/36/48/54Mbps	●	●
Super g: up to 108 Mbps	●	●
Access Point Interfaces		
Auto MDI/MDI-X Ethernet 10/100Base-TX: RJ-45	●	●
Receiver Sensitivity		
802.11b -85dBm@ 11mbps, -88 dBm@ 5.5 mbps, -90 dBm@ 2 mbps, -94 dBm@ 1 mbps	●	●
802.11g -91dBm@ 6mbps, -88 dBm@ 12 mbps,-82 dBm @36mbps, -76 dBm@ 54 mbps, -70 dBm@ 108mbps	●	●
Antenna Type		
Integrated directional panel antenna (dBi)	12	
Beamwidth		
Horizontal, Vertical	40°, 40°	
Antenna Connector		
N-Female		●
Security Systems		
64-bit/128-bit/152-bit WEP encryption; Wi-Fi Protected Access WPA with AES or TKIP, WPA-PSK	●	●
Wireless Setting		
Operation Mode - Client Bridge (Point-to-Point)	●	●
Software/Firmware		
Site Survey		
Wireless Client List		
DHCP Client		
WPA Support (WPA personal and enterprise)	●	●
Web-based configuration via popular browser (IE, Netscape)		
Firmware upgrade and configuration backup via Web		
Reset to default by WebUI or software		
Environment Temperature		
-22°F to +158°F (-30°C to +70°C)	●	●
Power		
12 Volt DC 5%; 1.5A (Max.); AC adapter AC 100V~240V	●	●
Network Management		
System OS Support Windows 95/98/Me/NT4.0/2000/XP	●	●
Warranty		
One year limited	●	●



AirEther CB54
Wireless Client Bridge



AirEther CB54E
Wireless Client Bridge

Package Contents

1. AirEther CB54/ CB54E Outdoor Wireless Client Bridge Unit
2. Ethernet Inline Power Injector (PoE), 12V DC
3. AC-DC 12V, Adapter with Wall-Plug Power Cord
4. Installation CD and Guide with Locator Utility & User Manual CD
5. Mast Mounting Kit (U Bolt)
6. Waterproof Connector
7. Warranty Information Sheet

Accessory Options

1. AC100 - 1M Low Loss Antenna Cable, N-Male to N-Male
2. WC001 - Waterproof Connector Set
3. WC25, WC75, WC100 - 25Ft, 75Ft, and 100Ft CAT5 outdoor grade Ethernet cables
4. WM001 - Wall Mounting Kit

Antenna Options



Model	PA09
Antenna Type	Panel
Frequency Range	2.1GHz to 2.6 GHz
Gain	9 dBi
VSWR	<= 1.3:1
Polarization	Vertical
Beamwidth	
Horizontal	75°
Vertical	75°
Connector	N-Female
Weight	300g
Size	
Length	107 mm
Width	94 mm
Height	30 mm

Recommended use with CB54E

Contact Information



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