

AirEther™ CB54/ CB54E/ CB5418 2.4 GHz Long Range Wireless Client Bridge IP67 All Weather Certified Enclosure

The AirEther™ CB54, CB54E, CB5418 are low cost outdoor residential Customer Premises Equipment (CPE) and 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, CB54E, CB5418 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 bridge-to-bridge mode and supporting point-to-point topology.



AirEther CB54
2.4GHz Long Range
Wireless Client Bridge



AirEther CB54E
2.4GHz Long Range
Wireless Client Bridge



AirEther CB5418
2.4GHz Long Range
Wireless Client Bridge

Key Features

- The AirEther CB54 is designed with a built in 12 dBi directional panel antenna on the front of the housing for cost savings
- 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
- Supports WPA and WPA-PSK with AES and TKIP, 152-bit encryption for the highest data security
- The AirEther CB5418 is integrated with a built in 18 dBi directional panel antenna on the front of the housing for cost savings (FCC only)
- IP Installer management software with user friendly GUI for easy configuration of the Customer Premises Equipment (CPE) such as factory default setting, IP address setting, and wireless setting
- Swivel mounting accessories provide an out-of-the-box solution for quick and easy installation
- 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
- Easy to install with cost effective Power over Ethernet (PoE)
- Allow either vertical or horizontal antenna polarity alignment
- Transmit power control for optimal long range radio performance
- Low profile enclosure designed for minimum wind resistance
- Built in site survey and management tools simplify installations and operations of wireless system
- IP67 certified all weather housing for outdoor environments; protected by a heavy-duty UV stable glass filled Polycarbonate plastic housing
- Fully weatherized outdoor unit operates in temperatures ranging from -22°F to +180°F (-30°C to +70°C)

Applications



Airports
Regardless if it is inside or outside of an airport, Inscape Data offers total wire or wireless IP based video security solutions that will save your installation cost and make your monitoring more efficient



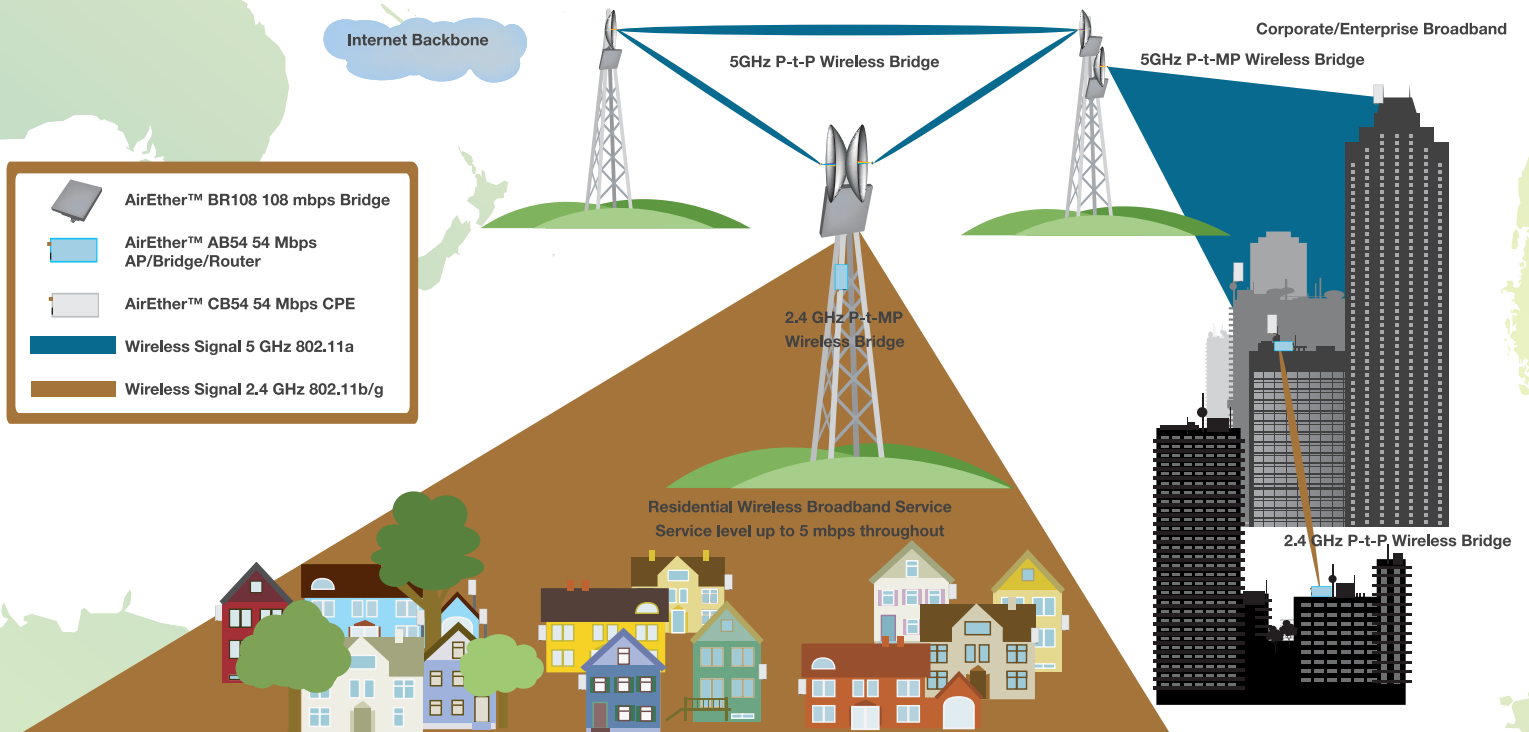
Metropolitan Street
Inscape Data's wire and wireless IP based video security solutions will save your installation cost and make the streets and metropolitan safer



Buildings
Inscape Data's wire and wireless IP based video security solutions will save your installation cost and make your building more secure



School Campus
Regardless if it is inside classrooms or on a campus, Inscape Data's wire and wireless IP based video security solutions will save your installation cost and make your monitoring easier



Technical Specifications

	CB54	CB54E	CB5418
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 (FCC)			
dBm max	21	21	21
EIRP (dBi) max	33	Up to 48	39
Transmission Power (CE/ETSI)			
dBm	20*	20*	
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		18
Beamwidth			
Horizontal, Vertical	40°, 40°		25°, 20°
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	●	●	●

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

To get more information on this product please visit www.inscapedata.com/cb54.htm

Contact Information



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AirEther CB54

Wireless Client Bridge

AirEther CB54E

Wireless Client Bridge

AirEther CB5418

Wireless Client Bridge

Package Contents

1. AirEther CB54/ CB54E/CB5418 Outdoor Wireless Client Bridge Unit
2. Ethernet Inline Power Injector (PoE)
3. AC-DC 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 Set
7. Warranty Information Sheet

Antenna Options



Model	PA21**
Antenna Type	Panel
Frequency Range	2.4GHz to 2.5GHz
Gain	21 dBi
VSWR	<= 1.3:1
Polarization	Vertical
Beamwidth	
Horizontal	15°
Vertical	20°
Connector	N-Female
Weight	1300g
Size	
Length	370 mm
Width	370 mm
Height	30 mm

* The use of transmit power control is required to maintain maximum of 20 dBm EIRP
**Recommended use with CB54E (FCC only)