

AirEther™ AB54/ AB54E/ AB54E Pro

Long Range Wireless Base Station

IP67/68 Certified All Weather Enclosure

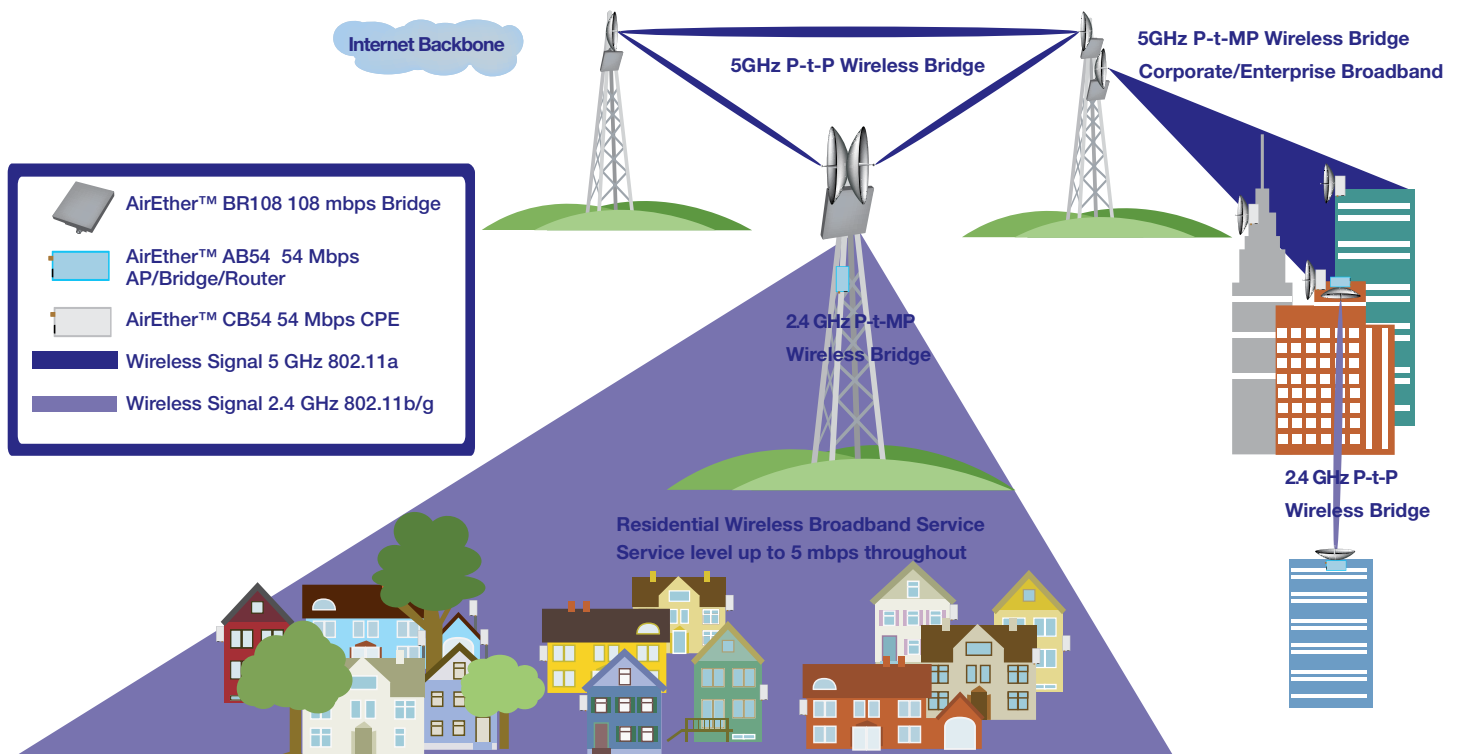
The AirEther™ AB54, AB54E and AB54E Pro are low cost wireless base station products, and the products are designed for carrier class outdoor wireless applications capable of operating at one of the four modes, such as Access Point, Wireless Bridge, Repeater mode or Long Range Client Bridge. The AB54 and AB54E are manufactured with an IP67 certified weatherproof enclosure and the AB54E Pro is manufactured with an IP68 certified weatherproof enclosure and all of these systems are designed for Near Line of Sight conditions. The radio performance of the AirEther AB54, AB54E, and AB54E Pro is designed and optimized for long range and high throughput wireless communications based on the IEEE 802.11 b/g standards.

The AirEther AB54 and AB54E Outdoor Wireless Access Point, Wireless Bridge, Repeater and Client Bridge offer a high performance, robust, and extensive wireless coverage area that is an ideal outdoor Wireless Client Bridge solution for operating in a point-to-point mode and supporting point-to-point topology for the following environments:

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

Features and Benefits

- IP configuration software designed with user friendly GUI for easy configuration of the wireless system, such as factory default setting, IP address setting, and wireless setting
- Allow either vertical or horizontal antenna polarity alignment
- The AirEther AB54E Pro offers 30 dBm transmit power (i.e., 1W) when operating under the 802.11b mode, and it offers 27 dBm transmit power (i.e., 500mW) when operating under the 802.11g mode
- The AirEther AB54E and AB54E Pro offer an external N-Female antenna for using with more flexible antennas, such as high gain omni directional or a more narrow beamwidth sector antenna
- Supports WPA and WPA-PSK with AES and TKIP, 152-bit encryption for the highest data security
- Easy to install with cost effective Power over Ethernet (PoE)
- Low profile enclosure designed for minimum wind resistance
- Adjustable direct output power up to 20 dBm for optimal long range radio performance
- The AirEther AB54 is designed with a built in 12 dBi directional panel antenna and delivers up to 33 dBi EIRP
- 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 simplified installations and operations of wireless system
- Swivel mounting accessories provide an out-of-the-box solution for quick and easy installation
- IP67 certified all weather housing for outdoor environments; protected by a heavy-duty UV stable glass filled Polycarbonates PC plastics housing
- Fully weatherized outdoor unit operates in temperatures ranging from -22°F to +180°F (-30°C to +70°C)



AirEther™ AB54/ AB54E/ AB54E Pro

Technical Specifications

	AB54	AB54E	AB54E Pro
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			
dBm	21	21	30
EIRP (dBi)	33		
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	●	●	●
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			
Access Point, Wireless Bridge, Repeater, Client Bridge	●	●	●
Software/Firmware			
Site Survey			
Wireless Client List			
DHCP Client			
Wireless access control by MAC address (deny or accept)	●	●	●
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			
SNMP			
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	●	●	
48 Volt DC 5%; 2A (Max.); AC adapter AC 100V~240V			●
Network Management			
System OS Support Windows 95/98/Me/NT4.0/2000/XP	●	●	●
Warranty			
One year limited	●	●	●



AirEther AB54
Access Point, Wireless
Bridge, Repeater, Client
Bridge



AirEther AB54E
Access Point, Wireless
Bridge, Repeater, Client
Bridge



AirEther AB54E Pro
Access Point, Wireless
Bridge, Repeater, Client
Bridge
(1W Output Power)

Package Contents

1. AirEther AB54, AB54E, or AB54E Pro Outdoor Wireless Based Station 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. Mass Mounting (U Bolt) Kit (all units) and Wall Mounts (AB54E Pro only)
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	OA09	SA1218
Antenna Type	Omni	Sector
Frequency Range	2.1GHz to 2.6 GHz	2.1GHz to 2.6 GHz
Gain	8 dBi	12 to 18 dBi
VSWR	<= 1.3:1	<= 1.3:1
Polarization	Vertical	Vertical
Beamwidth		
Horizontal	360°	60° to 120°
Vertical	12°	10°
Connector	N-Female	N-Female
Weight	200g	1030g
Size		
Length	390mm	184.9 mm
Width		65 mm
Height		370 mm
Antenna Diameter	20 mm	
Mass Diameter	29 mm	

Recommended use with AB54E and AB54 E Pro

Contact Information



Inscape Data Corporation

United States Headquarters

1611 South Main Street
Milpitas, CA 95035, U.S.A.

Customer Service and Orders:
(888) 267-4507

Monday - Friday 8:30 AM-6:00 PM PST
24-Hour Fax: (408) 935-8900

Asia Headquarters

11F-2, No. 335, Section 3, Rosefu Road
Taipei, 106, Taiwan, Republic of China

Phone: 886-2-8911-9944

Fax: 886-2-2910-0561

Authorized Distributor

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