

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 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.

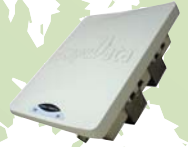
The AirEther AB54 and AB54E Outdoor Wireless Access Point, Wireless Bridge, Repeater and Client Bridge offer a high performance, robust, and extensive wireless coverage area that is an ideal outdoor Wireless Client Bridge solution for operating in a point-to-point mode and supporting point-to-point topology.



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
(28dBm Output Power)

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 28 dBm transmit power when operating under the 802.11b mode, and offers 22 dBm transmit power when operating under the 802.11g mode (FCC only)
- 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)
- 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
- The AirEther AB54 is designed with a built in 12 dBi directional panel antenna and AB54E/Pro with type N female antenna connector
- Built in site survey and management tools for simplified installations and operations of wireless system
- Low profile enclosure designed for minimum wind resistance
- Transmit power control for optimal long range radio performance
- 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 wired or wireless IP-based video security solutions that will save your installation cost and make your monitoring more efficient



Metropolitan Street

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



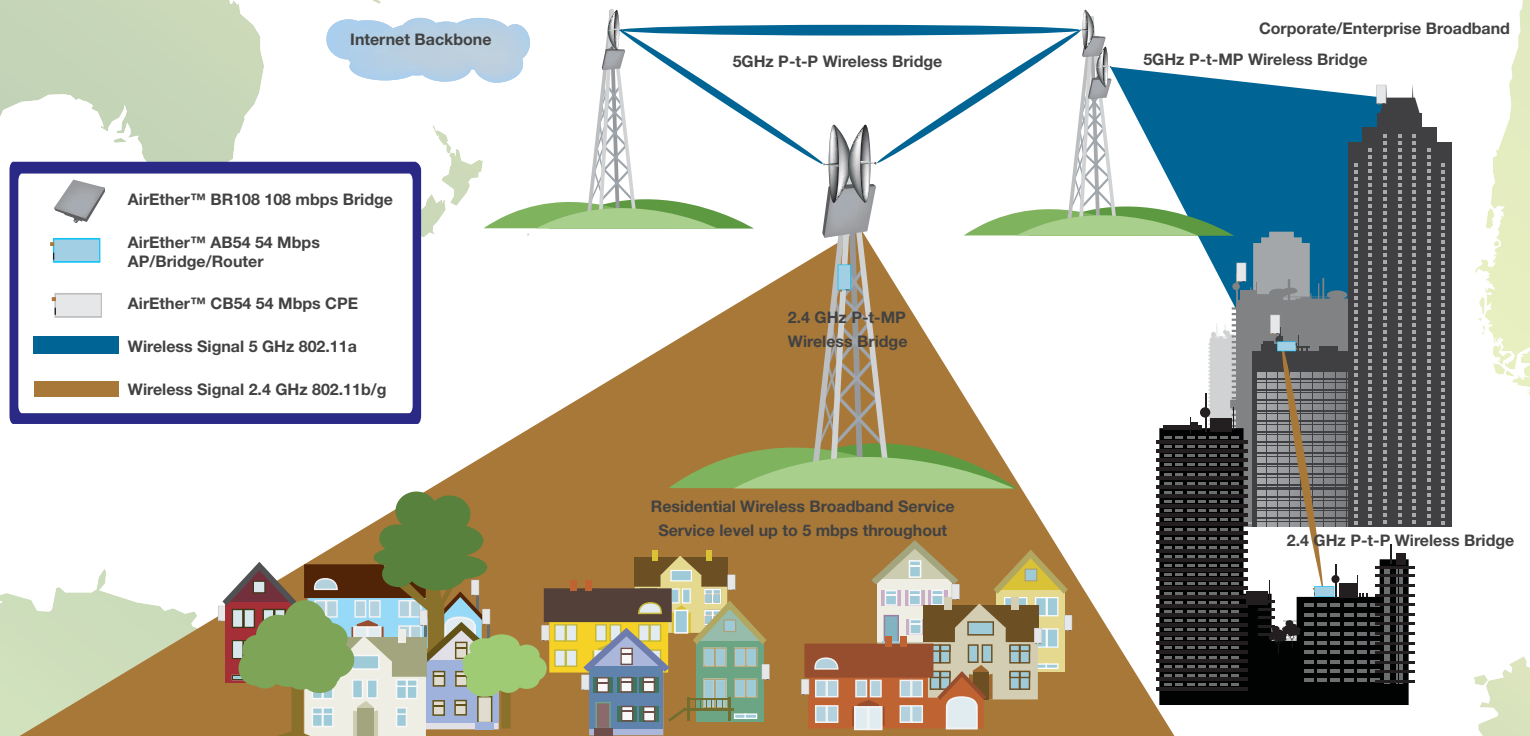
Buildings

Inscape Data's wired 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 wired and wireless IP based video security solutions will save your installation cost and make your monitoring easier



Technical Specifications

	AB54	AB54E	AB54E Pro
Hardware Revision	R2.1	R2.1	R3
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	28
EIRP (dBi) max	33		
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		
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	•	•	•
WPA2			•
Wireless Setting			
Access Point, Wireless Bridge, Repeater, Client Bridge	•	•	•
Multiple BSSID with 802.1g VLAN Tagging			•
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	•	•	•
Spanning Tree Protocol			•
VPN pass-through (PPTP, L2TP, IPSEC)	•	•	•
QOS			•
Network Time			•
Syslog Server			•
Environment Temperature			
-22°F to +158°F (-30°C to +70°C)	•	•	•
Power			
12 ~ 18 VDC 300mA (12VDC 2A AC/DC adapter included)	•	•	
48VDC 400mA (48VDC 1A AC/DC adapter included)			•
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)
3. AC-DC, 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

Antenna Options



Model	OA09	SA1821**	PA21**
Antenna Type	Omni	Sector	Panel
Frequency Range	2.4GHz to 2.5GHz	2.4GHz to 2.5GHz	2.4GHz to 2.5GHz
Gain	9 dBi	18 to 21 dBi	21 dBi
VSWR	<= 1.3:1	<= 1.3:1	<= 1.3:1
Polarization	Vertical	Vertical	Vertical
Beamwidth			
Horizontal	360°	60° to 120°	15°
Vertical	12°	10°	20°
Connector	N-Female	N-Female	N-Female
Weight	200g	1030g	1300g
Size			
Length	390mm	184.9 mm	370 mm
Width		65 mm	370 mm
Height		370 mm	30 mm
Antenna Diameter	20 mm		
Mass Diameter	29 mm		

Recommended use with AB54E and AB54 E Pro

* The use of transmit power control is required to maintain 20dBm EIRP

** Antenna use for FCC only

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 (for AB54 and AB54E)

To get more information on this product please visit www.inscapedata.com/ab54.htm

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