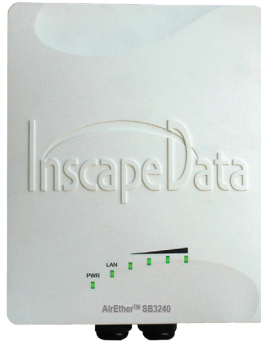


AirEther™ BR3000

802.11a/b/g/n MIMO Outdoor Wireless Bridge/Backhaul



The AirEther BR3000 802.11a/b/g/n MIMO Outdoor Wireless Bridge is a family of high performance carrier class outdoor wireless bridge system with an integrated 5Ghz 18dBi panel antenna that delivers maximum network performance from 300Mbps on Solo model to aggregated 600Mbps bandwidth on the Duet/Trio models for point to point and point to multi-point high bandwidth multimedia communications, e.g., video security, or long range communication backhauls. The BR3000 outdoor radio product family consists of the following three models:

BR3500 – 802.11 a/n MIMO Outdoor Wireless Bridge

- o One 5GHz high power radio, 26 dBm transmit power per radio per chain
- o Two external antenna connectors
- o 300Mbps Bandwidth

BR3500 Duo – 802.11 a/n MIMO Dual Radio Outdoor Wireless Bridge

- o Two 5GHz high power radio, 26 dBm transmit power per radios per chain
- o Four external antenna connectors
- o 600Mbps Aggregated Bandwidth

BR3500 Pro – 802.11 a/n MIMO Outdoor Wireless Bridge

- o One 5GHz high power radio, 26 dBm transmit power per radio per chain
- o One integrated 5GHz 18dBi dual polarity patch antenna
- o 300Mbps Bandwidth

BR3500 Duo Pro – 802.11 a/n MIMO Dual Radio Outdoor Wireless Bridge

- o Two 5GHz high power radio, 26 dBm transmit power per radios per chain
- o One integrated 5GHz 18dBi dual polarity patch antenna (Pro only)
- o Two external antenna connectors
- o 600Mbps Aggregated Bandwidth

The AirEther BR3000 outdoor radio system is built with a diecast aluminum enclosure that is designed to be compliant to IP68 outdoor rating and is capable of withstanding exposure to high and low temperatures, persistent moisture and precipitation, and is fully sealed for protection from airborne contaminants. All electrical interfaces include industrial-strength surge protection. With wall and mast mounting options, the BR3000 is built to provide years of trouble-free operation.

The AirEther BR3000 outdoor radio system is designed with the Power over Ethernet (PoE) feature and operates from a 100-240 volt AC power source, which allows power and data transmitted over a single network cable. This capability provides for simple, convenient installation. Furthermore, when you use the LPS1000/2000/3000 Outdoor PoE Switch and networking with any of the AirGoggle NVC Series H.264 and Mega-pixel Cameras, all the wireless devices and the cameras are networked within a single outdoor LAN (Local Area Network). It becomes much easier to manage, integrate, install, maintain, and troubleshoot. Based on Inscape Data's patent-pending technology, our new Outdoor PoE Switch greatly lessens challenges for outdoor LAN design, integration, and deployment.

KEY FEATURES & BENEFITS

Secure and Scalable

- AES-based, the wireless bridge link is secure and can scale to support multiple networks segmented by VLANs

High Performance MIMO Radio

- High power radio(s) and integrated 18dBi 5GHz panel antenna for immediate long range bridge deployment
- Idea for hotels and resorts, ideal for schools, stadiums, parking lots, and other outdoor sports facilities
- Excellent for large enterprises or warehouses that have shipping docks and other outdoor areas

Multimedia and QoS (Quality of Service) Support

- Support Quality of Service based on the IEEE 802.11e standard
- Improve the user experience for audio, video, and voice applications by prioritizing data traffic
- Up to 16 BSSIDs with unique QoS and security policies can be configured

FIPS-140-2 Security Supported

- This product supports the federal information processing standard (FIPS-140-2) cryptographic module to be used for sensitive government and healthcare applications.

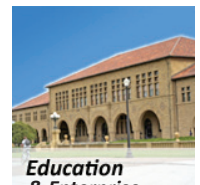
Ruggedized Enclosure For Harsh Outdoor Environments

- IP68 compliant plastic/diecast enclosure for long term durable outdoor deployment
- Outdoor grade enclosure supporting operating temperature between -40° C to 75° C
- Two or four external N-type antenna connectors

Easy Installation and Paring

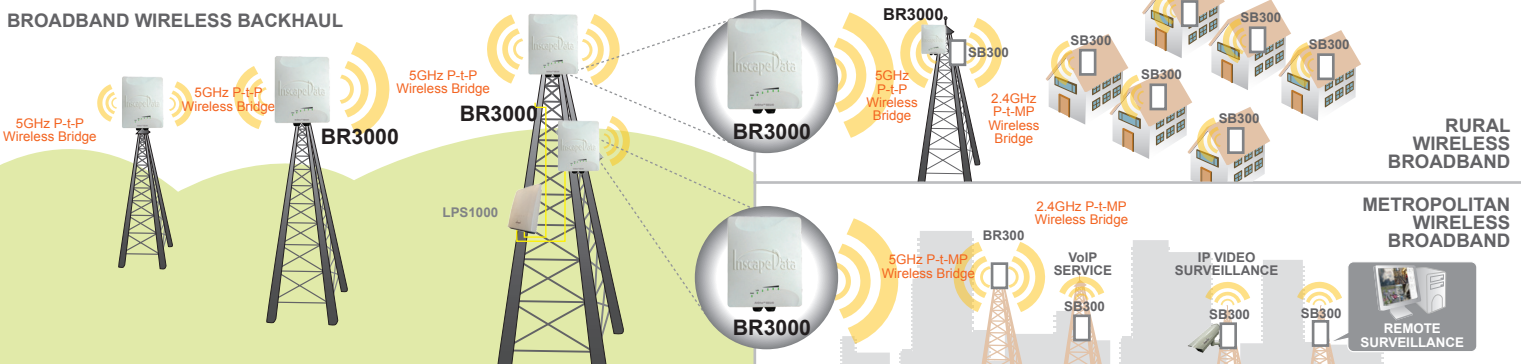
- Simplified wiring by PoE support for 100 ~ 240 volt AC power source
- Sophisticated LED and aiming software with additional Signal strength indicator for more effective paring and aiming between the bridge stations
- Flexible wall and mast mounting options

APPLICATIONS



SYSTEM CONFIGURATIONS

BROADBAND WIRELESS BACKHAUL



	Software	
Wireless	IEEE 802.11 a	
	IEEE 802.11 b/g (Trio Model only)	
	IEEE802.11n	
	Auto Channel Selection	
	Wireless Channels Support	
	Channel Bandwidth Support	
	Country Selection	
	Preamble Type	
	RTS Threshold Adjustment	
	Channel Spectrum Width, 5 / 10 / 20 / 40MHz	
	Beacon Interval Adjustment	
	SSID assignment	
	MultiSSID (4 Virtual AP)	
	VLAN Management Port/IP	
	VLAN Per SSID	
	Client BSSID assignment	
	Short Slot time support	
	IEEE 802.11d transparent Bridge	
	Station Connection Info	
	CTS-only & CTS/RTS protect mechanism support	
	WMM support	
	Bandwidth control	
	Transmit Data Rate Lock (Auto, 54, 36, etc..)	
	Client Limiting Feature	
	TPC (Transmit Power Control) Support in dBm	
	RSSI Values in dBm	
	RF Site Survey	
	Burst Mode	
	User Adjustable ACK Timing	
	Auto Adjust for Slottime, ACK Timeout, CTS Timeout	
	Signal Strength Indicator (4 Levels)	
	Max Data Rate per 300Mbps	
	Remote AP-Preferred MAC	
Remote AP Lock		
Channel Scan List		
Rate Aggressiveness		
CTS Timeout		
Signal Strength Indicator		
Noise Immunity		
Enable/Disable Radio		
Antenna Selection, Ant 1, Ant2, 2x2		
Operation Mode	DHCP Client	
	DHCP Server	
	AP	
	PTMP Bridge	
	Repeater Mode	
	AP Client	
	WDS	
	Router	
	Security	Http User Name and Password
		Read Only Account
HTTPS		
Access Control List, i.e (None/Accept/Deny)		
IEEE802.1x		
Management	Wireless Station Isolation	
	Hide SSID	
	802.11i (AES)	
	NIST FIPS-140-2 Level 2	
	NTP	
	Bridged Station List	
	Site Survey	
	HTTP Web based configuration	
	Selectable HTTP port	
	Fallback IP	
	Static, DHCP Client, PPPoE	
	Message Log	
	Configuration Management (Backup/Restore System File)	
	Statistics support	
	Telnet	
SSH		
SNMP v2c		
Ping Watchdog		
Auto-Reboot		
Host Name		
Auto Provision		
Device Search, IP Locator		
Firmware Upgrade	HTTP Network Protocol Download	
	Configuration Retention after FW Upgrade	

Network	NAT
	VPN Pass Through
	STP
	DMZ
	IP/Port Forwarding
	Static Routing
	RIP v1 & V2
	VLAN Tag support
	Firewall
	UPnp
Housing	Multicast Routing
	Protocols Support,
	LED
	PWR, LAN, WLAN
	4-Level Signal Strengthen LED
	LAN Port (1) , WAN Port (1)
System Compliance	Adjustable Pan/Tilt Bracket
	No of External Antenna Connector (0,2, or 4 per model)
	WAN Port with PoE Enable, IEEE802.3af (48V ~ 56V)
	IP 68 Rating
FCC, CE, ROHS, ETSI, Japan	

SYSTEM DIMENSIONS & INTERFACES



Height: 9.6" (244mm)
Width: 7.9" (201mm)
Depth: 3.25" (83mm)

ACCESSORIES

Power

PIA200
Gigabit PoE Injector



Cables

AC100
1M Low Loss
Antenna Cable
N-Male to N-Male

WC002
Waterproof
Connector Set

WC25, WC75, WC100
25Ft, 75Ft, and 100Ft CAT5
Outdoor Grade Ethernet Cables

Antenna Options

Omni-Directional Antenna

OA09	OA12	OA15
2.4GHz	2.4GHz	2.4GHz
9dBi	12dBi	15dBi

Panel MIMO Antenna (Dual Polarity)

PA12M	PA18M	PA21M	PA5G14M	PA5G18M
2.4GHz	2.4GHz	2.4GHz	5GHz	5GHz
12dBi	18dBi	21dBi	14dBi	18dBi

Parabolic Dish MIMO Antenna (Dual Polarity)

DA5G25M	DA5G28M	DA5G32M
5GHz	5GHz	5GHz
25dBi	28dBi	32dBi

PACKAGE CONTENT

1. AirEther BR3000 Series Unit
2. PoE DC Injector with internal switching power supply
3. Product CDROM
4. Mounting Kit: MWMK001 Bracket Mounting Kit
5. Warranty Information Sheet
6. Weatherproof Connector Set
7. Ground Cable



THE LEADING
OUTDOOR NETWORK
APPLIANCE COMPANY

Product Information Online: <http://www.inscapedata.com/br3000.htm>

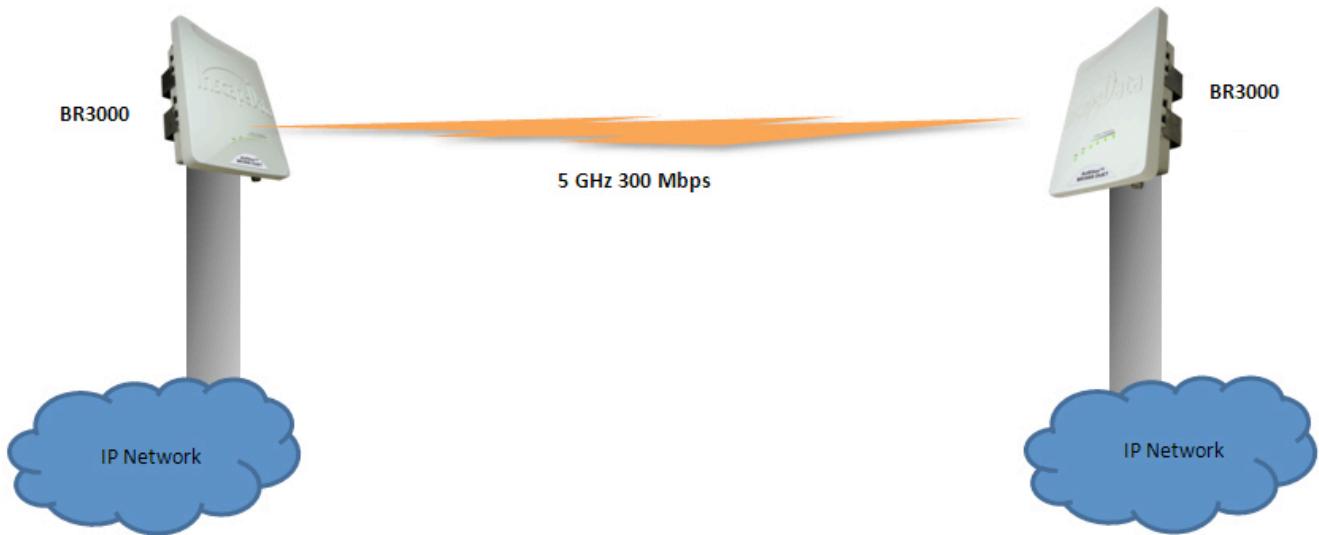
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Total Turnkey Solutions for Outdoor PoE, Wired/Wireless, and IP Video Applications

AIREETHER™ BR3000 APPLICATION NOTE

System Reference Diagram

The BR3000 Solo offers one 2x2 MIMO radio. When paired with one MIMO high gain antennas, provides high capacity one to point or point to multipoint 300 mbps backhaul. Typical deployment looks like the following:

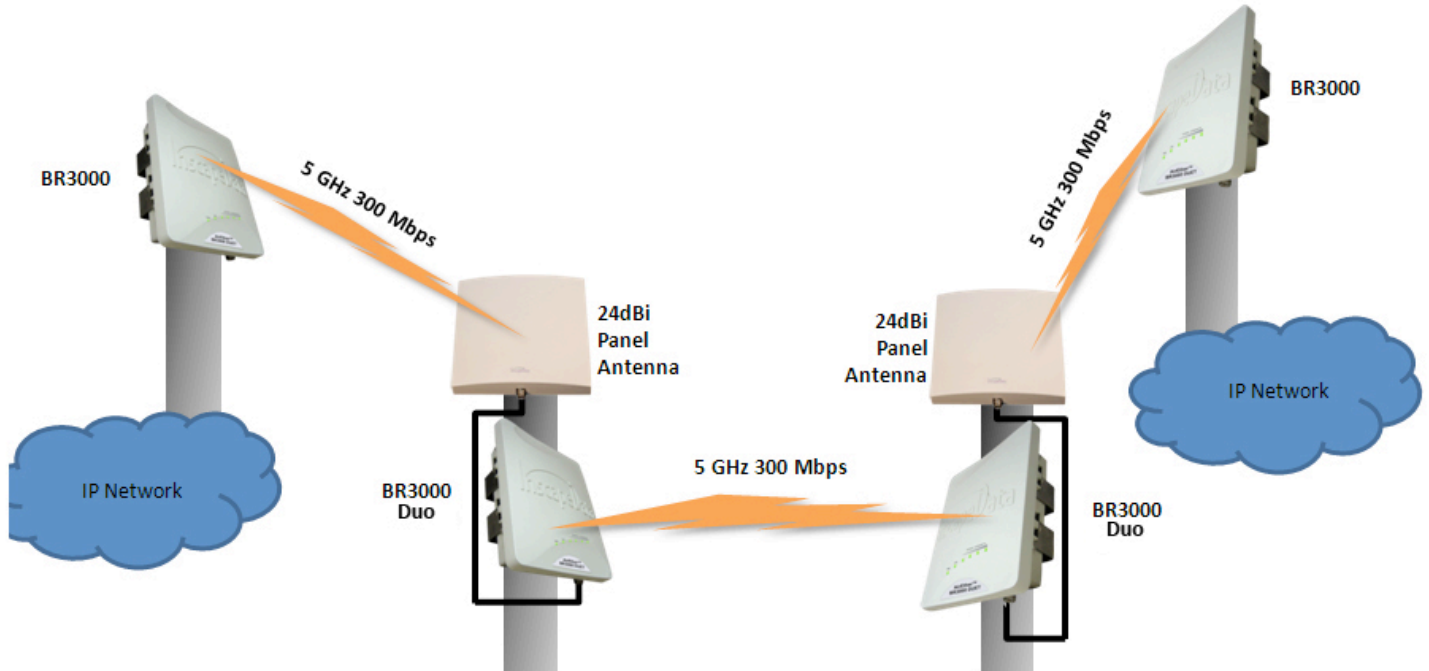


Applications:

1. Large Video Security Application
2. Enterprise Backhaul
3. Federal & Government
4. Education, e.g., Larger Campus
5. Carrier

System Reference Diagram

The BR3000 Duo offers two 2x2 MIMO radio. When paired with two MIMO high gain antennas, provides 600mbps aggregated data rate, double the amount offered in the BR3000 Solo. Typical deployment looks like the following:



Applications:

1. Large Video Security Application
2. Enterprise Backhaul
3. Federal & Government
4. Education, e.g., Larger Campus
5. Carrier