# THE LEADING OUTDOOR NETWORK APPLIANCE COMPANY Total Turnkey Solutions for Outdoor PoE, Wired/Wireless, and IP Video Applications

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\*Antenna Sold Separately

The AirEther SB3000 802.11 b/g/n/ac MIMO Outdoor AP/Router/Bridge System is a family of high performance radio products and is a carrier class outdoor wireless AP/router/bridge system that delivers maximum network performance up to 300Mbps. The SB3000 outdoor radio product family consists of the following four models:

### SB3240 - 802.11 b/g/n MIMO Outdoor AP/Router/Bridge

- $\circ$  One 2.4GHz high power radio, 26 dBm aggregate transmit power per radio per chain
- Two external antenna connectors
- 300Mbps Bandwidth

### SB32450 - 802.11 b/g/n/ac MIMO Outdoor AP/Router/Bridge

- $\circ$  One 2.4GHz & 5GHz high power radio, 26 dBm aggregate transmit power per radio per chain
- Four external antenna connectors
- 300Mbps Bandwidth

The AirEther SB3000 outdoor radio system is a powerful and unprecedented 802.11 b/g/n/ac MIMO Outdoor AP/Router/Bridge System that offers deployment flexibility for highly traffic Wifi hotspots, school campuses, industrial yards or plants, warehouses, seaport container/airport facilities, extreme industrial production areas, and other harsh environmental applications.

In addition to rich network features, the AirEther SB3000 outdoor radio system is designed with one 2x2 MIMO high power radio(s), i.e., 26dBm on 2.4GHz and 5GHz, aggregate power transmission together with two or four 5 dBi omni directional antenna delivering up to 300 Mbps per radio bandwidth. With powerful network security, i.e., AES 128bit & IEEE802.1x, this high performance outdoor AP/Router/Bridge system is engineered to survive in harsh outdoor environments, the AirEther SB3000 is built with a diecast aluminum enclosure that is designed to 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.

The AirEther SB3000 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.264/265 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
- Support up to two IEEE802.1x radius authentication servers for media-level access control and traffic policy based on user or machine identity

### High Performance MIMO Radio

- High power radio(s) for extended areas of coverage
  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 (Qualify 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

#### Ruggedized Enclosure For Harsh Outdoor Environments

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

### Easy Installation and Paring

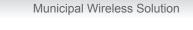
- Simplified wiring by PoE support for 100 ~ 240 volt AC power source
- Four system LED with additional Signal strengthen indicator for more effective AP/client paring
- Flexible wall and mast mounting options

### APPLICATIONS





### SYSTEM CONFIGURATIONS





Outdoor Wireless Internet Service Solution

SB3240

LPS1000

Outdoor Wireless VoIP Service Solution



#### **TECHNICAL SPECIFICATIONS: SB3000**

	Software
	IEEE 802.11 ac
	IEEE 802.11 b/g
	IEEE802.11n
	Auto Channel Selection
	Wireless Channels Support
	Channel Bandwidth Support Country Selection
	Preamble Type
	RTS Threshold Adjustment
	Channel Spectrum Width
	5/10/20/40 MHz
	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
Wiroloss	Transmit Data Rate Lock (Auto, 54, 36, etc)
Wireless	Client Limiting Feature
	Concurrent Stations
	Simultaneous Vo-Fi
	Throughput 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 300Mbps per Radio Radio Chains
	2 Spatial Streams
	Remote AP-Preferred MAC
	Remote AP Lock
	Channel Scan List
	Rate Aggressiveness
	CTS Timeout
	Signal Strength Indicator Noise Immunity
	Enable/Disable Radio
	AeroScount RFID Tag Detection
	Antenna Selection, Ant 1, Ant2
	DHCP Client
	DHCP Server
	AP PTMP Bridge
<b>Operation Mode</b>	Repeater Mode
	AP Client
	WDS
	Router
	Http User Name and Password
	Read Only Account HTTPS
	Access Control List, i.e (None/Accept/Deny)
Security	IEEE802.1x
	Wireless Station Isolation
	Hide SSID
	Wireless Intrusion Detection
	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)
Management	Statistics support
	Telnet
	FTP/TFTP
	SNIMD - 20
	SNMP v2c Ping Watchdog
	Auto-Reboot
	Host Name
	Device Search, IP Locator
Firmware	HTTP Network Protocol Download
Upgrade	Configuration Retention after FW Upgrade

	NAT
	VPN Pass Through
	STP
	DMZ
	IP/Port Forwarding
	Static Routing
Network	RIP v1 & V2
Network	VLAN Tag support
	Firewall
	UPnp
	Multicast Routing
	Protocols
	TCP/IP, RTSP, UDP, IGMP, DHCP, Tags, PPPOE, DHCP client, DHCP Server
	Maximum Ethernet Clients Supported (128)
	LED
Union	PWR, LAN, WLAN
	4-Level Signal Strengthen LED
Housing	LAN Port (1), WAN Port (1)
	Adjustable Pan/Tilt Bracket
	No of Extenernal Antenna Connector (2) WAN Port with PoE Enable, IEEE802.3af (48V ~ 56V)
	IP 68 Rating
System	ů
Compliance	FCC, CE, ROHS, ETSI, Japan

#### SYSTEM DIMENSIONS & INTERFACES



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

### ACCESSORIES

PIS1000

Power

Antenna

Options







Gigabit IEEE802.3af PoE Injector



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

### **Omni-Directional Antenna**

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

Panel MIMO Antenna (Dual Polarity)

2.4GHz         2.4GHz         2.4GHz         5GHz         5GHz           12dBi         18dBi         21dBi         14dBi         18dBi		PA12M	PA18M	PA21M	PA5G14M	PA5G18M
12dBi 18dBi 21dBi 14dBi 18dBi	)	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 SB3240 or SB3245 Unit
  - 2. PIS1000 PoE Injector with internal switching power supply
  - 3. Product Resource Disc
  - 4. Mounting Kit: Mast Mounts (1-3/4" to 8-9/16" Diameter Pole Size) and Wall Mounts
  - 5. Warranty Information Sheet
  - 6. Weatherproof Connector Set
  - 7. Ground Cable
  - \* Omni Antenna(s) NOT Included



THE LEADING OUTDOOR NETWORK APPLIANCE COMPANY

## Product Information Online: http://www.inscapedata.com/sb3000.htm

Corporate Headquarters 1620 Oakland Road, Suite D101, San Jose, CA 95131, U.S.A. PHONE +1.408.392.9800 FAX +1.408.392.9812 EMAIL sales@inscapedata.com

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