

AirEther™ SB3000 Solo

802.11a/b/g/n MIMO

Outdoor AP/Router/Bridge System



SB3240 Solo

SB3500 Solo

*Antenna Sold Separately

The AirEther SB3000 Solo 802.11a/b/g/n 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 Solo outdoor radio product family consists of the following four models:

SB3240 Solo – 802.11 b/g/n MIMO Outdoor AP/Router/Bridge

- One 2.4GHz high power 26dBm radio per chain
- Two external antenna connectors
- 300Mbps Bandwidth

SB3500 Solo – 802.11 a/n MIMO Outdoor AP/Router/Bridge

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

The AirEther SB3000 Solo outdoor radio system is a powerful and unprecedented 802.11 a/b/g/n 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 Solo outdoor radio system is designed with one 2x2 MIMO high power radio(s), i.e., 29dBm on 2.4GHz and 28dBm on 5GHz, 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 Solo 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.

The AirEther SB3000 Solo 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
- 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 (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 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 strength indicator for more effective AP/client pairing
- Flexible wall and mast mounting options

APPLICATIONS



Hospitality



Education



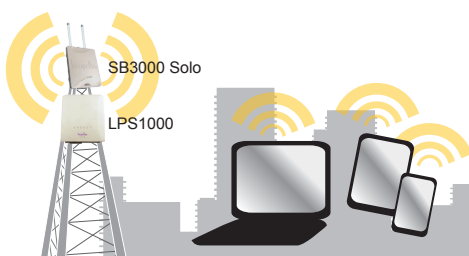
Enterprise



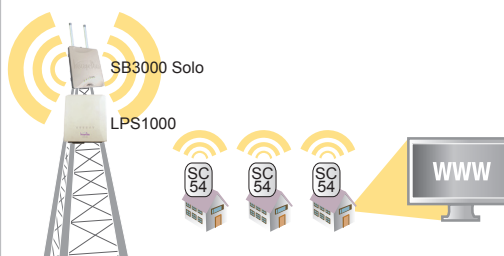
Residential

SYSTEM CONFIGURATIONS

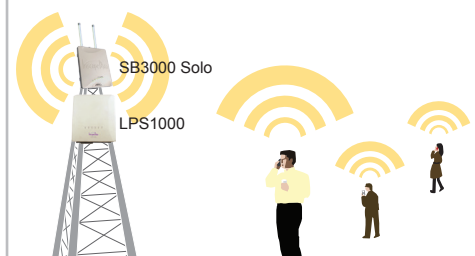
Municipal Wireless Solution



Outdoor Wireless Internet Service Solution



Outdoor Wireless VoIP Service Solution



| | Software |
|---|--|
| Wireless | IEEE 802.11 a |
| | 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 |
| | Transmit Data Rate Lock (Auto, 54, 36, etc..) |
| | 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 | |
| AeroScout RFID Tag Detection | |
| Antenna Selection, Ant 1, Ant2 | |
| DHCP Client | |
| DHCP Server | |
| AP | |
| PTMP Bridge | |
| Repeater Mode | |
| AP Client | |
| WDS | |
| Router | |
| Http User Name and Password | |
| Read Only Account | |
| HTTPS | |
| Access Control List, i.e (None/Accept/Deny) | |
| 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) | |
| Statistics support | |
| Telnet | |
| FTP/TFTP | |
| SSH | |
| SNMP v2c | |
| Ping Watchdog | |
| Auto-Reboot | |
| Host Name | |
| Device Search, IP Locator | |
| HTTP Network Protocol Download | |
| Configuration Retention after FW Upgrade | |
| Firmware Upgrade | |

| | |
|-------------------|--|
| Network | NAT |
| | VPN Pass Through |
| | STP |
| | DMZ |
| | IP/Port Forwarding |
| | Static Routing |
| | RIP v1 & V2 |
| | 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 |
| Housing | PWR, LAN, WLAN |
| | 4-Level Signal Strengthen LED |
| | No. of Ethernet Port (1), IEEE 802.3af PoE |
| | Adjustable Pan/Tilt Bracket |
| | No of External Antenna Connector (4) |
| System Compliance | IP 68 Rating |
| | FCC, CE, ROHS, ETSI, Japan |

SYSTEM DIMENSIONS & INTERFACES



- (a) Height: 9.6" (244mm)
- (b) Width: 7.9" (201mm)
- (c) Depth: 3.25" (83mm)

ACCESSORIES

Power

PIA100
Integrated PoE Power Adapter



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

- OA Series Omni-Directional Antenna
 - OA09 2.4GHz 9dBi
 - OA12 2.4GHz 12dBi
 - OA15 2.4GHz 15dBi
- PA Series Panel Antenna
 - PA21 2.4GHz 21dBi
 - PA5G18 5GHz 18dBi
- SA Series Sector Antenna
 - SA1821 2.4GHz 18 - 21dBi
- GA Series Parabolic-Grid Antenna
 - GA5G24 5GHz 24dBi

PACKAGE CONTENT

1. AirEther SB3000 Solo Unit
 2. PoE DC Injector with internal switching power supply
 3. Product Resource Disc
 4. Mounting Kit: Mast Mounts (1" to 3") 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>

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

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