

## SYSTEM CONFIGURATIONS

TECHNICAL SPECIFICATIONS: BR3000 SERIES

| 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,<br>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   |
| Security         | Router  |
|                  | Http User Name and Password                           |
|                  | Read Only Account                                     |
|                  | HTTPS   |
|                  | Access Control List, i.e (None/Accept/Deny)           |
|                  | IEEE802.1x  |
|                  | Wireless Station Isolation                            |
| Management       | 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 Exteneral 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

| 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   |

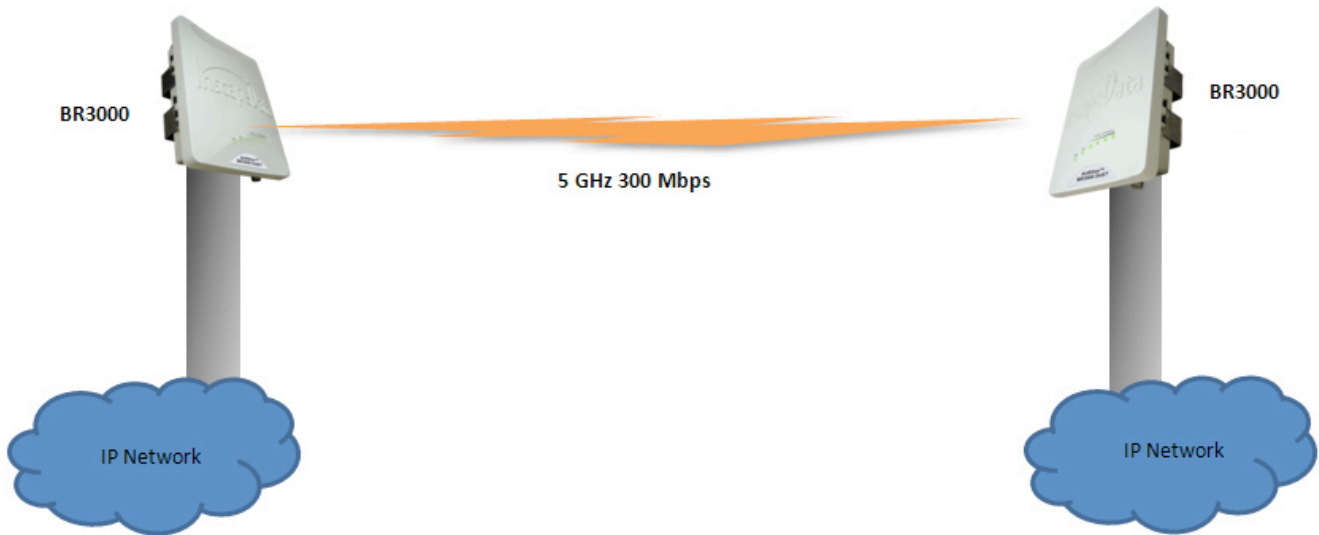
PACKAGE CONTENT

- Antenna Options
- AirEther BR3000 Series Unit
  - PoE DC Injector with internal switching power supply
  - Product CDROM
  - Mounting Kit: MWMK001 Bracket Mounting Kit
  - Warranty Information Sheet
  - Weatherproof Connector Set
  - Ground Cable

## 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:



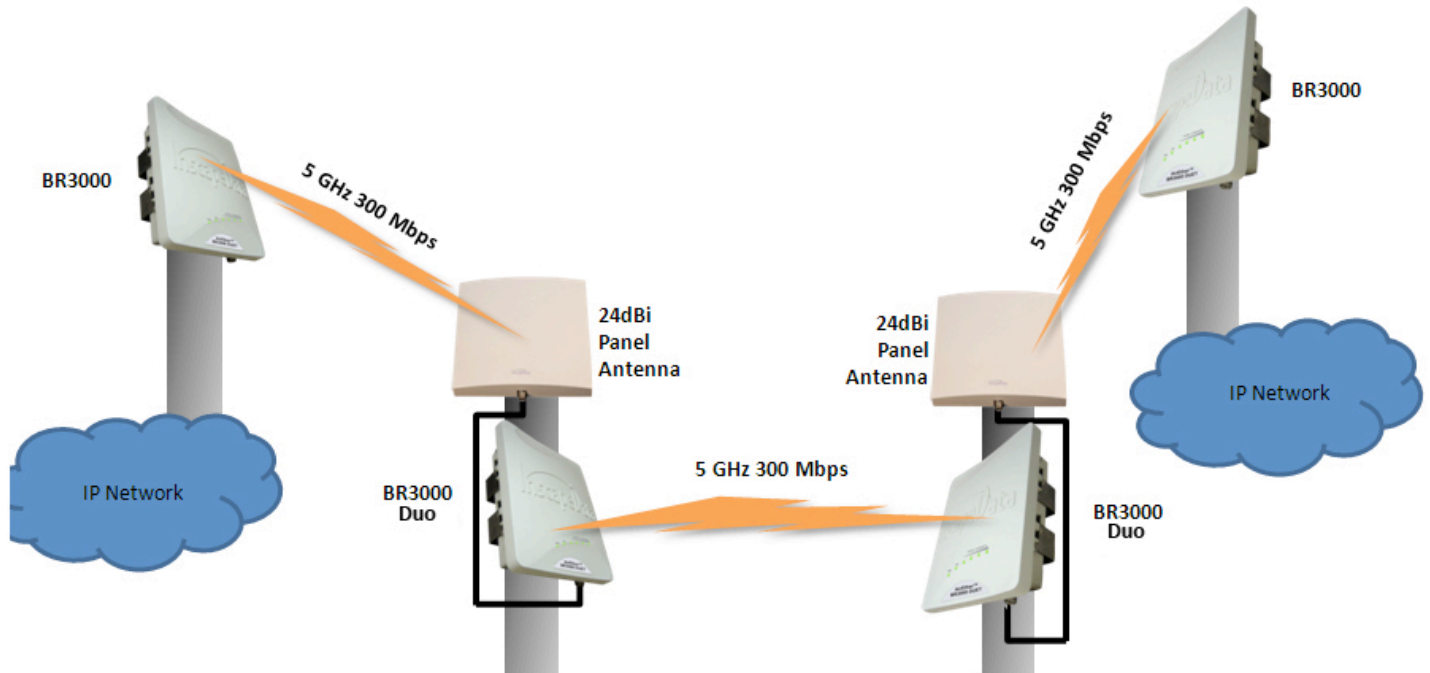
### Applications:

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

## AIREETHER™ BR3000 DUO APPLICATION NOTE

### 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