

AirEther™ RB11

Outdoor Wireless Bridge/Router

IP68 Certified All Weather Enclosure



Features and Benefits

- RB11 is flexible and operates as a PtP (Point-to-Point) or PtMP (Point-to-Multiple-Point) wireless bridge, static routing ability links networks in different buildings or remote locations
- MAC address-based access control and enhanced features for stronger security
- Enhanced transmit power for extended wireless coverage of up to 20Km/13 Miles*
- IP68 certified die-cast all weather enclosure
- Watertight type connector
- 100% sealed by a strong mechanical structure and sturdy design for harsh weather environments
- Built-in Surge Arrestor at antenna port
- Industrial strength wall mounting screws and mast mounting bracket with U-bolts included
- The unique die-cast metal housing designed to function as a ground plane, forming a perfect radiation pattern, and improved antenna performance
- Additional 12V DC power on-board for system integration of 2.4 GHz RF amplifier enables the unit to provide higher direct output power
- Ease of installation with cost effective Power over Ethernet (PoE)

The AirEther RB11 Outdoor Wireless Bridge/Router offers a robust and extended wireless coverage area that is the ideal outdoor Wireless Bridge/Router and wireless backbone solutions. The AirEther RB11 operates as either a point-to-point or a point-to-multipoint bridge with static routing ability to link networks in the following environments:

- Airports
- Building to Building
- Security & Surveillance
- Public Parks
- Marinas
- Convention Centers
- Beaches
- Campus
- Stadiums

Ideal Wireless Bridge/Router Solutions

The Most Economical Outdoor Wireless Bridge/Router Solution

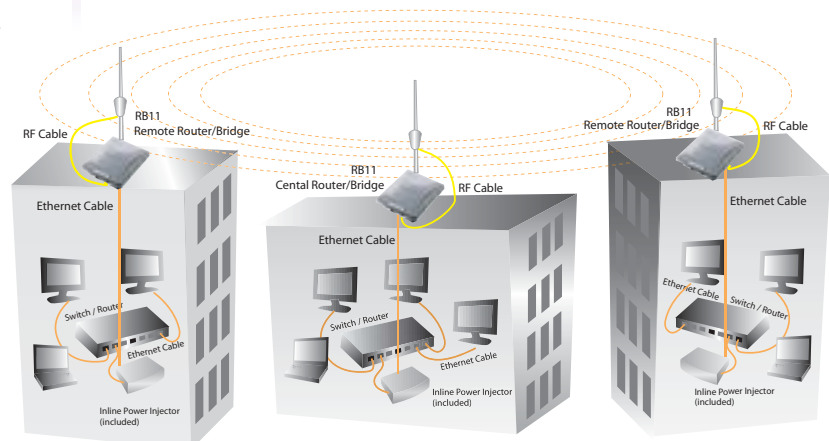
The AirEther RB11 is the most robust and affordable 11 Mbps Outdoor Wide Area Wireless Bridge/Router, and it is the ideal solution for public parks, outdoor shopping malls, marinas, and stadiums, and other outdoor venues, etc. The AirEther RB11 is IP68 certified and built with die-cast all weather housing that is dust proof, and protected from strong water jets and/or constant immersion. The AirEther RB11 provides an easily outdoor wireless backbone to the Internet or LAN. With AirEther RB11, Internet Service Providers can cost-effectively deploy last mile access networks for business and residential customers in medium-sized communities.

Flexible to Expand Wide Area Wireless Networks

The AirEther RB11 offers flexibility and can function as either wireless bridge or wireless router connecting LANs to remote buildings and locations. The economical alternative to a leased line, the AirEther RB11 can function reliably as a wireless backbone to link and network remote branch offices, creating a wide area wireless LAN for your wireless communication needs.

Secure and Reliable Outdoor Network Extension

The AirEther RB11 provides secure and reliable connectivity with IEEE 802.1x authentication and 64/128-bit WEP encryption between wireless clients, e.g. laptops, PDAs, and LANs. The system can be easily integrated into existing networks and network management systems. IEEE 802.1b SSID is hidden for site survey presentation. The firewall features include a MAC address filter, DoS, and IP based access control.



InscapeData

Inscape Data Corporation
www.inscapedata.com

*The distances referenced here are approximates and should be used for estimations only.

AirEther™ RB11

Outdoor 2.4 GHz Wireless Bridge/Router (IP68 Certified All Weather Enclosure)

Order Information

Model No.

AirEther RB 11
Outdoor Wireless Bridge/Router

Part No.

11-2004-RB1100

Package Contents

- RB11 Outdoor Wireless Bridge/Router Unit
- Ethernet Inline Power Injector
- 1m Low Loss RF Cable
- 30m MIL-C-5015 Style Ethernet Cable
- 2m Uplink RJ-45 Ethernet Cable
- 2m mil-c-5015 Style RS232 Configuration Cable
- User Manual CD
- Mast Mounting Bracket with U-bolts
- Wall Mounting Bracket with Screws

Dimension

- L = 9.40 inches (23.88 cm)
- W = 7.86 inches (19.96 cm)
- H = 2.75 inches (6.99 cm)

Warranty

- 1 Year (Parts and Labor)

Technical Specifications

Wireless

- IEEE 802.11b (2.4 GHz unlicensed ISM radio band)
- Frequency band: 2.4 ~ 2.497GHz
- Modulation: Direct Sequence Spread Spectrum (DSSS)
- Data Rate: CCK @ 11/5.5 Mbps, DQPSK@2Mbps, DBPSK @1Mbps
- Media Access Protocol: CSMA/CA with ACK

Power Supply (PoE)

- Input: 100 ~ 240V AC 50 ~ 60Hz
- Output: ~48V DC 0.7A

Regulation Certifications

- FCC Part15
- CSA

Transmit Power (Exclude Antenna Gain)

- 23dBm (200mw typically) for Pro version
- 30dBm (1W typically) for Premium version

Receiver Sensitivity

- < -84dBm @11Mbps
- < -90dBm @2Mbps

Networking

- IEEE 802.1d bridge
- DHCP Server (RFC 2131)
- DHCP Client
- PPPoE (RFC 2516)
- DNS Relay
- NAT/NAPT
- Virtual Server (NAT inbound server)
- Static Routing

Security

- PPPoE authentication PAP/CHAP
- User authentication in Web-Based Manager
- MAC address based access control
- IEEE 802.11b 64-Bit, 128-Bit encryption
- IEEE 802.11b SSID hidden (Site Survey Prevention)
- Denial wireless 802.11b "ANY" station

Firewall

- Build-in NAT firewall
- IP based access control
- Denial of Service (DoS) Protection
- Consol (RS-232) configuration

Network Management

- SNMP v1, v2
- Web-based manager

Network Interface

- 1 Port 10Base-T Ethernet for WAN/LAN
- UART for console

Firmware Upgrade

- TFTP (Transparent FTP)
- Xmodem & 1K Xmodem

Operating Channels

- North America: 1 ~ 11 (FCC)
- Europe: 1 ~ 13 (ETSI)
- Japan: 1 ~ 13 (TELEK)/ 14 (MKK)

Lightning Protector Surge Current

- 20KA

Operating Temperature

- -20~70 °C (-4~158 °F) in operating
- -40~80 °C (-4~176 °F) in storage

Humidity (non-condensing)

- Outdoor, all-weather enclosure

* Specifications subject to change without notice.
* For distribution partner details, please visit <http://www.inscapedata.com>



Inscape Data Corporation

Worldwide Headquarters

Inscape Data Corporation
1613 South Main Street, Suite 105
Milpitas, CA 95035, U.S.A.
Main: (408)935-8500
Fax: (408)935-8900
URL: www.inscapedata.com
E-mail: info@inscapedata.com

Taiwan Office

No. 2, Lane 475, ChungHo Road
YungHo City
Taiwan, Republic of China
Tel: (02)2922-7628
Fax: (02)2926-6881

Thailand Office

5/107-108 Bangrak Condominium
6TH Floor
Chareonkrung 63Rd., Yannawa
Sathorn District Bangkok 10120
Thailand
Tel: (662)212-9660
Fax: (662)212-5138