



- **Expandable architecture for higher performance, seamless interoperability**
 - Built on a Layer 3, 4 technology for greater functionality
 - Offers forward compatibility/upgradability to higher speed WLAN standards for true investment protection
 - Point-to-multipoint expands the outdoor solution to 100 segments through new IP routing functionality
 - 10/100 Ethernet uplink scales to meet evolving bandwidth needs as well as the requirements of multiple high-speed radios
- **Total system manageability including policy management**
 - Management scales to support thousands of wireless nodes
 - Fully manageable from NetSight
 - Supports SNMP v3, Telnet and web management
 - IGMP Snooping enables provisioning of available bandwidth for multicast traffic
 - 802.1x/Extensible Authentication Protocol enables policy-based networking
 - Dynamic load balancing spreads traffic across multiple access points
- **Remote power injection reduces costs**
 - Saves on installation costs by powering the RoamAbout through the network cables
- **Standards-based functionality protects investments**
 - Support for current and future radio technologies, including existing 802.11b radios
 - Will support IEEE 802.11e, the proposed standard for security and Quality of Service for wireless
 - Will support IEEE 802.1f, the proposed standard for multivendor access point-to-access point communication
- **Industry-leading security**
 - Session encryption provides a dynamic encryption key for each user

Next-Generation WLAN Platform for Greater Performance and Functionality

The RoamAbout™ R2 supports multiple networking requirements, and provides the same award-winning features found in the RoamAbout Access Point 2000.

Multilayer Performance and Control in a Wireless LAN

Highly-customizable and affordable, RoamAbout R2 is an expandable WLAN platform designed to provide customers with advanced networking features and intelligence, an upgradable architecture, and support for multiple technologies. These superior features offer a smooth technology migration, eliminating the need to upgrade an entire infrastructure or discard previously purchased PC radio cards, thus ensuring a higher return on investment and a lower total cost of ownership.

Built on an expandable architecture, the RoamAbout R2 will support multiple high-rate WLAN radios. When radios supporting higher rate standards become available, the RoamAbout R2 will run the high-rate radios and the current 802.11b radios simultaneously. In addition, the RoamAbout R2 delivers on the promise of 802.1x/Extensible Authentication Protocol, a touchstone of Enterasys' Secure Harbor™, and with it, User Personalized Networking, enabling policy-based networking by making the network aware of users and their classifications.

The RoamAbout R2 will soon support four levels of Priority Queuing and Service Level Agreements as well as IGMP snooping for better management of multicast traffic, including sound and video.

Importantly, the RoamAbout R2 offers the same industry-leading features inherent in the RoamAbout Access Point 2000: enhanced user mobility with uninterrupted access, vendor interoperability, easy installation and upgrades, and free configuration tools—as well as the vital security you expect.

RoamAbout

Advanced Network Functionality

Thanks to Layer 3/4 technology, the RoamAbout R2 will deliver nearly all the functionality commonly expected from the industry's highest-functioning wiring-closet switches. RoamAbout R2 supports IEEE 802.1x/Extensible Authentication Protocol and SNMPv3 for secure network management. It will soon support IP routing for 1 to 100 point-to-multipoint bridging; VLANs; session and dynamic encryption; and full Layer 4 classification with four priority queues for Quality of Service and service level agreements, dynamic load balancing and IGMP snooping.

Additionally, through future firmware releases, RoamAbout R2 will support 802.11e Security and 802.11f Inter-Access Point Protocol. RoamAbout R2 also supports two radios, providing double aggregate bandwidth availability or simultaneous outdoor bridging and indoor WLAN support, or standalone bridging as part of a wireless mesh topology.

The RoamAbout suite was the first to deliver power-over-copper capabilities. This functionality is also supported in the RoamAbout R2.

Its advanced networking functionality makes the RoamAbout R2 the most flexible wireless access platform in the industry.

Superior Management

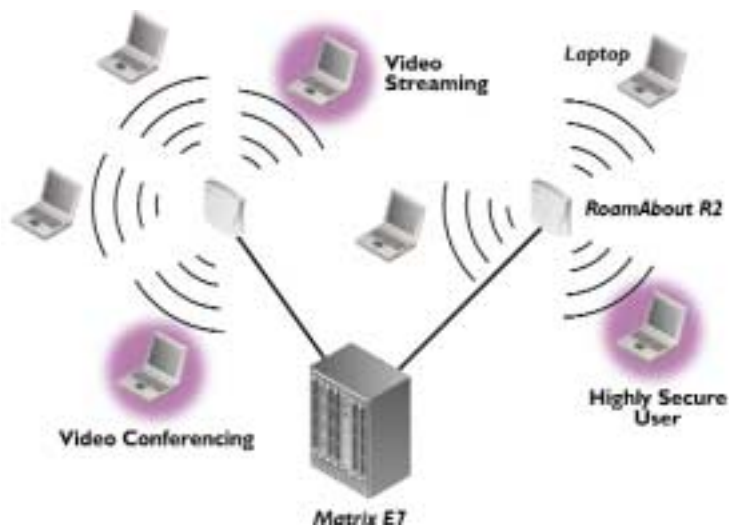
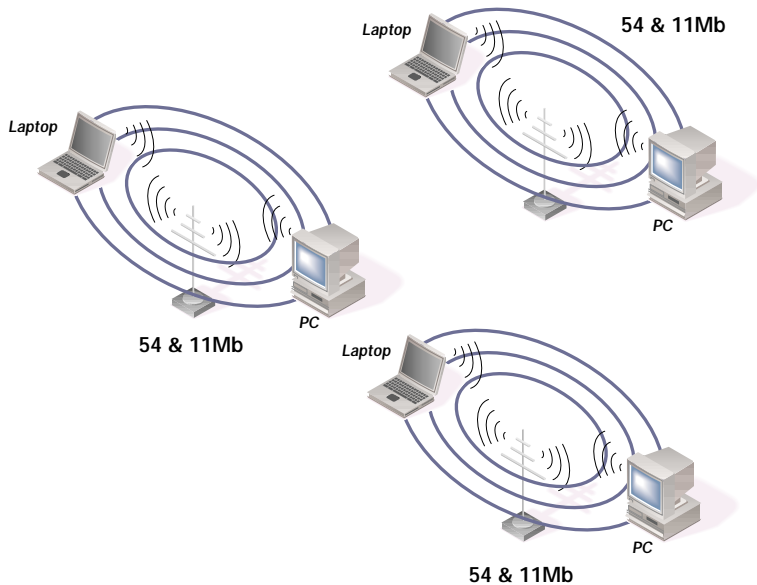
InternetWeek has recognized the RoamAbout product suite for its superior approach to management. RoamAbout R2 is no exception. With management to support networks that scale from one to thousands of wireless nodes, RoamAbout R2 is fully manageable from the NetSight platform, enabling advanced management features such as policy-based management.

RoamAbout R2 also supports SNMP v3, Telnet and web management.

Challenge	Solution
<i>Migrating the wireless LAN to higher-rate standards such as HyperLan2 or IEEE 802.11a</i>	<ul style="list-style-type: none">• <i>RoamAbout R2 is an expandable platform that supports multiple radios. When radios supporting these standards become available, the RoamAbout R2 will run the higher-rate and current radios simultaneously.</i>
<i>Ensure interoperability with existing network and new high-rate radios as well as with equipment from other vendors</i>	<ul style="list-style-type: none">• <i>Compliance with both 802.11a and 802.11b ensures support for high-rate radios and current technology—including other vendors' products—simultaneously providing investment protection for users with both solutions.</i>
<i>Deploy policy-based management to allocate user resources based on role</i>	<ul style="list-style-type: none">• <i>RoamAbout R2 complies with 802.1x/Extensible Authentication Protocol, enabling policy-based networking by making the network aware of users and their classifications.</i>
<i>Ensure network management for total control of system resources</i>	<ul style="list-style-type: none">• <i>In addition to complete manageability via the NetSight platform, RoamAbout R2 supports SNMP v3, Telnet and web management for management to support networks that scale from one to thousands of wireless nodes.</i>
<i>Gain the quality of service found in a wired infrastructure from a wireless network</i>	<ul style="list-style-type: none">• <i>RoamAbout R2 will soon support four levels of Priority Queuing and Service Level Agreements. RoamAbout R2 will also support IGMP snooping for better management of multicast traffic, including voice and video.</i>
<i>Using expandable platform in an outdoor wireless solution</i>	<ul style="list-style-type: none">• <i>Thanks to its expandability and support for multiple radios, the RoamAbout R2 can support indoor and outdoor wireless deployments simultaneously.</i>

Simultaneous Support for Current and Future Wireless Technologies

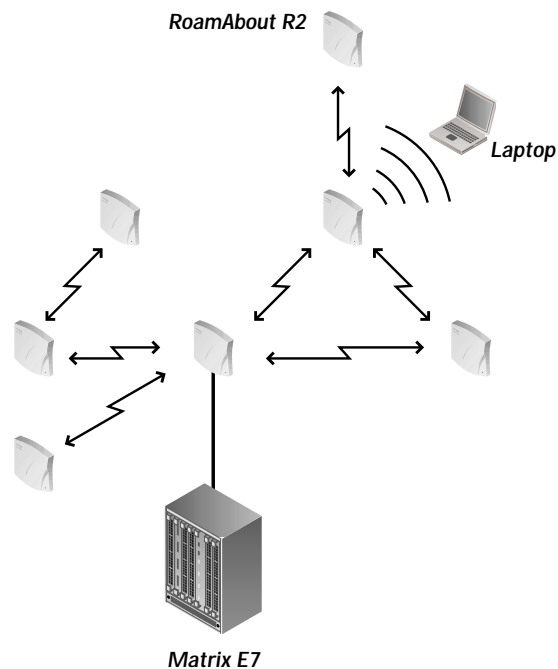
RoamAbout R2 is an 802.11b wireless access platform, but is fully upgradable to accommodate the technologies of new, higher-rate radios scheduled to become available in late 2001. Because it is designed to support two radios simultaneously, the RoamAbout R2 will be able to operate as both an 802.11a and an 802.11b access device, supporting high-rate radios and 802.11b radios simultaneously and ensuring true investment protection for users with an earlier solution.



The RoamAbout R2 provides 802.1x policy-based networking support to match critical services to network users.

Why RoamAbout Is a Better Wireless Solution

- A mature, award-winning technology
- Secure, scalable, seamless interoperability
- Standards-based for investment protection
- Cost-effective solution
- Highly secure data transmission
- Easy installation
- NetSight, Telnet and web management support



The RoamAbout R2 offers routing functionality, enabling a wireless mesh topology with redundant links to the wiring closet as well as to standalone wireless "closets."

2.4 GHz PC Card Option (CSIBD-xx/CSILD-xx) TECHNICAL SPECIFICATIONS

Frequency Band

2400 to 2483.5 MHz

Modulation Technique

Direct Sequence Spread Spectrum (CCK, DQPSK, DBPSK)

Spreading

11 chip Barker sequence

Bit Error Rate

Better than 10^{-5}

Media Access Protocol

CSMA/CA (Collision Avoidance) with ACK

Data Rate

11 Mbps (with fall back rates of 5.5, 2 and 1Mbps) Automatic Rate Selection

Output Power

CSIBD-xx: 15dB (32mW)

CSILD-xx (outdoor ETSI): 8dB (6.25mW)

Range (Meters/Feet)

	11 Mbps	5.5 Mbps	2 Mbps	1 Mbps
Open Office	(160/525)	(270/885)	(400/1300)	(550/1750)
Semi Open	(50/165)	(70/230)	(90/300)	(115/375)
Closed	(25/80)	(35/115)	(40/130)	(50/165)

Receiver Sensitivity dBm

82@11Mbps 87@ 5.5Mbps 91@ 2Mbps 94@ 1Mbps

PHYSICAL SPECIFICATIONS

Dimensions

118 mm (4.72") x 54 mm (2.26") x 8 mm (0.32")

Electrical

120 to 240 VAC; 16 watts

Interfaces

Wired 10/100 Mbps with full auto negotiation

PC Card Interface: card bus 32 Bit, PCMCIA 16 bit

General purpose interface to Mezzanine card

Console port: RS232

RoamAbout R2 Access Platform

PHYSICAL SPECIFICATIONS

Dimensions

62.3 mm (2.45") D x 173.4 mm (6.84") W x 200.8 mm (7.90") L

Weight

1.47 kg (3.25 lbs); weight includes plastic décor cover

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ENVIRONMENTAL SPECIFICATIONS

Operating Temperature

5°C to 40°C (41°F to 104°F)

Non-Operating Temperature

-30°C to 66°C (-22°F to 151°F)

Operating Humidity

5 to 85%

Non-Operating Humidity

0 to 95%

Altitude

-60 meters (-200 feet) below sea level to 4000 meters (13,125 feet) above sea level

Power Consumption

120

AGENCY AND STANDARDS SPECIFICATIONS

Safety

EC Directive 73/23/EEC (EN 60950) Europe

CSA C22.2 No. 950

AS/NZS 3200 Australia/New Zealand

IEC 950 (CB Scheme) International Countries

UL 1950 USA

TUV European certification

Electromagnetic Compatibility (EMC)

AS/NZS 3548 Australia/New Zealand

BCIQ (BSMI) Taiwan

CS-03 Canada

EC Directive 89/336/EEC (EN 55022) Europe

FCC 47CFR Part 15, Class B USA

NOM-019-SCR-SCFI Mexico

VCCI-V3 Japan

ORDERING INFORMATION

RBTR2-**

RoamAbout R2 wireless access platform (Note: ** use AA for North America, AB for all other users)

RBTRC-MZ

RoamAbout Mezzanine adapter for additional radio card

CSIBD-**

RoamAbout PC Radio Card

CSIBD-**-128

RoamAbout PC Radio Card (128-bit RC4 encrypt.)

[Note: ** Use AA for FCC (North America and Australia), AB for ETSI (Europe and other regions), AF for France, AJ for Japan]

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