# RoamAbout™ 802.11a Super Rate Wireless LAN Access Point PC Card for the RoamAbout R2

- Enables high-rate 802.11a data transmission in the RoamAbout R2 Access Point
- 802.11a compliant with 54 Mbps data rate for maximum throughput
- Enhanced security with 128-bit WEP encryption, 802.1X User Authentication with Key Distribution and per-session encryption
- Multichannel roaming for enhanced performance

- **802.11a compliant; Wi-Fi certified**
  - 54 Mbps data rate supports more bandwidth-intensive communications
  - Vendor interoperability, seamless integration and investment protection
  - Robust data integrity, with fall-back to lower data rates for maximum range
- **RoamAbout R2 Access Point support**
  - Supported in the RoamAbout R2 primary slot, mezzanine slot or both
- **Enhanced security**
  - Support for 128-bit WEP, per-session encryption
  - 802.1X User Authentication with Key Distribution
  - Enhanced Access Control
  - Guest network support for per-session/per-user encryption keys while supporting guests on a shared level
- **Multichannel roaming**
  - Supports eight non-overlapping channels for improved mobility and performance; users will automatically stay connected
- **Convenient PC card form factor**
  - Compact, streamlined design with an integrated antenna
  - 32-bit CardBus interface

## Step Up in Wireless Performance, Quickly and Cost Effectively

A 5.15–5.35 GHz 54 Mbps Direct Sequence Spread Spectrum (DSSS) PC card for the RoamAbout R2 Access Point, the RoamAbout 802.11a wireless LAN PC card uses radio frequencies to transmit data to clients working on desktop PCs, industry-standard notebook PCs, or other handheld devices. The RoamAbout 802.11a wireless PC card has a 32-bit CardBus interface. Compliance with IEEE 802.11a ensures 54 Mbps performance for maximum throughput, as well as vendor interoperability, seamless integration and investment protection.

Since RoamAbout uses the ISM band (Industrial, Scientific and Medical), no US FCC license is required. RoamAbout 802.11a PC cards that meet the requirement of ETSI and other international agencies are also available.

## Critical Security Features

Ideally suited to medium and large enterprises in health care, education, government and manufacturing, the RoamAbout 802.11a wireless LAN PC card supports 128-bit Wired Equivalent Privacy (WEP) encryption and per-session encryption, as well as 802.IX User Authentication with Key Distribution. At the same time, Enhanced Access Control gives network managers complete control over who connects to the network. AES Encryption will be available via an easy-to-use firmware upgrade.

With support for these important security mechanisms, the RoamAbout continues to be one of the most secure wireless LAN solutions on the market.

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## Specifications

5.15 – 5.35 GHz, RBTBF-AX
(-AL, -AM and -AJ each have 4 channels)

### Technical Specifications

**Frequency Band**
5.15 – 5.35 GHz

**Number of Selectable Sub Channels**
**(subject to local regulations)**
United States (-AX): 8

Canada (-AX): 8

Japan (-AJ): 4

Europe: country specific

APAC: country specific

South America: country specific

**Modulation Technique**
Direct Sequence Spread Spectrum OFDM

**Bit Error Rate**
Better than 10-5

**Media Access Protocol**
CSMA/CA (Collision Avoidance) with ACK

**Wireless Medium**
Orthogonal Frequency Division Multiplexing (OFDM)

**Modulation**
BPSK at 6 and 9 Mbps, QPSK at 12 and 18 Mbps,
16-QAM at 24 and 36 Mbps, 64-QAM at 48 and 54 Mbps

**Interface**
32-bit CardBus (PCI) Type II Extended

**Data Rate**
54 Mbps (with fall-back rates of 48, 36, 24, 18, 12, 9 & 6 Mbps)

### Automatic Rate Selection (ARS)

**Semi Open Office**
54 Mbps: 21 meters (70 feet)

48 Mbps: 28 meters (90 feet)

36 Mbps: 50 meters (160 feet)

**Available Output Power Settings**
14dBm/25mW, 13dBm/20mW, 12dBm/16mW,
10dBm/10mW, 8dBm/6mW, 5dBm/3mW, 0dBm/1mW, -
15dBm/0.03mW

**Receiver Sensitivity dBm**
-69 dBm, -75 dBm, -80 dBm, -86 dBm, -88 dBm

**Internal Antenna**
Up to 4.5dB of gain on transmit and receive

**Power Consumption PC Card**
Receive mode: 440 mA

Transit mode: 540 mA

### Physical Specifications

**Dimensions**
11.78 cm (4.64") x 5.4 cm (2.12") x 0.87 cm (.34")

### Environmental Specifications

**Operating Temperature**
-20° C to 50° C (-4° F to 122° F)

**Operating Humidity**
95% maximum humidity, non-condensing

**Power Supply**
3.3V power supply

**Standards**
IEEE 802.11a

### Agency and Standards Specifications

**Safety**
UL 60950, CSA 60950, EN 60950, EN 60825 and IEC 60950

**Electromagnetic Compatibility**
47 CFR Parts 2 and 15, CSA C108.8, EN 555022, EN
55024, EN 61000-3-2, EN 61000-3-3, AS/NZS CISPR 22,
and VCCI V-3

## Ordering Information

### 802.11a PC Cards

**RBTBF-AX**
RoamAbout 802.11a PC Radio Card (8 channels)

**RBTBF-AL**
RoamAbout 802.11a PC Radio Card (Low 4 channels)*

**RBTBF-AM**
RoamAbout 802.11a PC Radio Card (Mid 4 channels)**

**RBTBF-AJ**
RoamAbout  802.11a PC Radio Card (Japan 4 channels)***

* Low 4 channels: 5.180GHz (36), 5.200GHz (40), 5.220GHz (44) and 5.240GHz (48)
** Mid 4 channels: 5.260GHz (52), 5.280GHz (56), 5.300GHz (60) and 5.320GHz (64)
*** Japan 4 channels: 5.170GHz (34), 5.190GHz (38), 5.210GHz (42) and 5.230GHz (46)

### RoamAbout R2 Access Points

**RBTR2-AB**
RoamAbout R2 Access Point with 120-240V power supply

**RBTR2-AZ**
RoamAbout R2 Access Point with mezzanine

**RBTRC-MZ**
RoamAbout R2 Mezzanine Adapter for second slot

### 802.11b PC Cards

**CSICD-AW-128**
RoamAbout 802.11b 128-bit Encryption PC Radio Card (world card)

**CSI6CD-AW-128**
RoamAbout 802.11b 128-bit Encryption PC Radio Card, 6 pack (world card)

**CSI40CD-AW-128**
RoamAbout 802.11b 128-bit Encryption PC Radio Card, 40 pack (world card)

### 802.11b PC Cards for Outdoor Use

**CSIBD-AA-128**
RoamAbout 802.11b 128-bit Encryption PC Radio Card (FCC)

**CSIBD-AB-128**
RoamAbout 802.11b 128-bit Encryption PC Radio Card (ESTI)

**CSIBD-AF-128**
RoamAbout 802.11b 128-bit Encryption PC Radio Card (Singapore)

**CSIBD-AJ-128**
RoamAbout 802.11b 128-bit Encryption PC Radio Card (Japan)

## Ordering Information

CSILD-AB-128
RoamAbout 802.11b 128-bit Encryption Hi-Gain Matched PC Radio Card (ESTI)

CSILD-AF-128
RoamAbout 802.11b 128-bit Encryption Hi-Gain Matched PC Radio Card (Singapore)

CSILD-AJ-128
RoamAbout 802.11b 128-bit Encryption Hi-Gain Matched PC Radio Card (Japan)

Bundles

RBT6D-AW-SP6
RoamAbout Startup Pack, worldwide. One RoamAbout R2 Access Point, six 802.11b world cards and
a range extender antenna

RBTED-AA
RoamAbout R2 Outdoor Kit. RoamAbout R2, CSIBD-AA-128 PC Card, pigtail, lightening arrestor, 50' cable and
14dB directional antenna (for FCC countries)

RBTED-AB
RoamAbout R2 Outdoor Kit. RoamAbout R2, CSILD-AB-128 PC Card, pigtail, lightening arrestor, 50' cable and
14dB directional antenna (for ETSI countries)

RBTED-AA-M07
RoamAbout R2 Outdoor Kit. RoamAbout R2, CSIBD-AA-128 PC Card, pigtail, lightening arrestor, 50' cable and 7dB
omni-directional antenna (for FCC countries)

RBTED-AB-M07
RoamAbout R2 Outdoor Kit. RoamAbout R2, CSIBD-AB-128 PC Card, pigtail, lightening arrestor, 50' cable and 7dB
omni-directional antenna (for ETSI countries)

## Ordering Information

Optional Products

### CSIBB-IA
RoamAbout Indoor Antenna for wiring closet applications or in desktop applications

### RBTBX-PC
RoamAbout PCI Carrier (requires either the RBTBG-*, CSICD-AW-128 or CSIBD-*-*)

### RBTR2-PS3
Redundant/spare power supply for RBTR2/CSIWS

### CSIWS-RM
Remote Power Adapter rack mount option (holds three injectors)

### CSIWS-RMPER
Spare/replacement power injector

## Warranty

As a customer-centric company, Enterasys is committed to providing the best possible workmanship and design in our product set. In the event that one of our products fails due to a defect in one of these factors, we have developed a comprehensive warranty that protects you and provides a simple way to get your products repaired as soon as possible.

## Service and Support

Enterasys understands that superior service and support is a critical component of *Networks that Know.*™ The Enterasys **SupportNet Portfolio**—a suite of innovative and flexible service and support offerings—completes the Enterasys solution. SupportNet offers all the post-implementation support services you need—online, onsite or over the phone—to maintain your network availability and performance.

## Additional Information

For additional information on RoamAbout, visit **enterasys.com/products/wireless**

## Contact Information

Contact Enterasys Sales at **877-801-7082** or **enterasys.com/corporate/contact/contact-sales.html**

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