

- 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



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

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 802.1X 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.

- **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

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

UL60950

Canada: CSA C22.2 No. 950

Europe: EN60950 and 73/23/EEC

Australia: AS3260

Electromagnetic Compatibility (EMC)

United States: FCC Parts 2 and 15, OET 65

Canada: CS-03 and ISC RSS210

Europe: EN55022, ETS 301 489-17, ETS 301 489-1, EN55024, EN61000-3-2, EN61000-3-3

Japan: VCCI-V3 and MPT radio regulations

Australia: AS3548

Warranty

1 year

ORDERING INFORMATION

802.11a PC CARDS

RBTF-AX	RoamAbout 802.11a PC Radio Card (8 channels)
RBTF-AL	RoamAbout 802.11a PC Radio Card (Low 4 channels)*
RBTF-AM	RoamAbout 802.11a PC Radio Card (Mid 4 channels)**
RBTF-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)
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, lightning arrestor, 50' cable and 14dB directional antenna (for FCC countries)
RBTED-AB	RoamAbout R2 Outdoor Kit. RoamAbout R2, CSILD-AB-128 PC Card, pigtail, lightning 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, lightning 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, lightning arrestor, 50' cable and 7dB omni-directional antenna (for ETSI countries)

OPTIONAL PRODUCTS

CSIBB-IA	RoamAbout Indoor Antenna for wiring closet applications or in desktop applications
CSIBB-IP	RoamAbout ISA Carrier (requires either the CSICD-AW-128 or CSIBD-*-*)
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 Networks understands that superior service and support is a critical component for your *Business-Driven Network*. The Enterasys **SupportNet** Portfolio—a suite of innovative and flexible service and support offerings—completes the Enterasys *Business-Driven Network* 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 more information about Enterasys wireless products, visit the Web at <http://www.enterasys.com/wireless>.

CONTACT INFORMATION

Contact Enterasys Sales at: **978-684-1000** or <http://www.enterasys.com/corporate/contact/contact-sales.html>

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