



RoamAbout™ AP3000

- Supports an 802.11b/g radio card and an 802.11a radio card, for a migration path to 802.11a, as well as support for heterogeneous client environments
- Offers enhanced security with WEP, WPA, AES (802.11i ready), 802.1X User Authentication with key distribution, and more
- Provides a 10/100 Ethernet uplink to support multiple high-speed radios
- Meets international requirements with DFS/TPC support (802.11h ready)

- **Multi-technology architecture**

- Includes both an 802.11b/g radio card (2.4 GHz) and an 802.11a radio card (5 GHz) for maximum throughput

- **Enhanced security**

- Supports 128-bit WEP/WPA and 128-bit AES (802.11i ready) keys with WPA support
- Supports 802.1X User Authentication with Key Distribution
- Supports 64 VLANs based on PVID (RFC 3580) assignments and 802.1X authentication
- Supports per-session/per-user encryption
- Provides an enhanced access control mechanism to better manage who connects to the network

- **Multiple management options**

- Supports NetSight, SNMPv3, Telnet, web-management and a standard CLI
- Supports networks that scale from one to thousands of wireless nodes
- 10/100 Ethernet uplink
- High-bandwidth uplink delivers scalability to meet evolving business needs

- **Remote power to reduce costs**

- Supports 802.3af Power-over-Ethernet in unused pairs and in-data pairs

Multi-Technology, Fully Standards Compliant, Wireless LAN Access Point

The RoamAbout AP3000 is designed with a multi-technology architecture to support both an 802.11b/g embedded radio and an 802.11a embedded radio. The RoamAbout AP3000 is also available with a single 802.11b/g embedded radio for customers who don't plan on moving to an 802.11a network and are looking at the cost of implementation.

The RoamAbout AP3000 offers enhanced security features such as WEP, WPA (Wi-Fi Protected Access), AES and SNMPv3, as well as manageability features that include NetSight Atlas™ console and NetSight Atlas Inventory Manager support, web management and Telnet management, including the standard CLI interface. At the same time, enhanced access control gives network managers complete control over who connects to the network.

The RoamAbout family of products allows you to establish a secure, high-performance wireless data LAN network quickly, easily, and economically. Users of IEEE 802.11a-, 802.11b-, and 802.11g-compliant wireless products can easily integrate multiple vendors' client devices, supporting full interoperability and making wireless communication effortless. Since RoamAbout uses the ISM band (Industrial, Scientific and Medical) with 2.4 GHz and 5 GHz frequency bands, no US FCC license is required. In addition, with an initial country code setting and support for DFS/TPC (802.11h ready), RoamAbout meets ETSI and other international standards. Based on the country setting, the RoamAbout Access Point will allow only usage for channels that are allowed in the specified country.

With its competitive price, the RoamAbout AP3000 is ideally suited to customers seeking to expand their existing wireless LAN infrastructure, or for those customers who would like to implement a wireless LAN and do not require the enhanced features and functionality of the RoamAbout R2.

Specifications

Technical Specifications

802.11a

Frequency Band

5.15 – 5.25 GHz (low band) US (FCC), Canada, Japan and parts of Europe

5.25 – 5.35 GHz (mid band) US (FCC), Canada and parts of Europe

5.725 – 5.825 GHz (high band) US (FCC) and Canada

5.50– 5.70 GHz Europe band

Modulation Technique

BPSK, QPSK, 16-QAM and 64-QAM (OFDM)

Media Access Protocol

CSMA/CA (Collision Avoidance) with ACK

Data Rate

54 Mbps with fall back rates of 48, 36, 24, 18, 12, 9 and 6 Mbps per channel

Output Power

17dBm at 5.15 – 5.25 GHz
(except at 54 Mbps output is 12dBm)

17dBm at 5.25 – 5.35 GHz

17dBm at 5.725 – 5.825 GHz
(except at 54 Mbps output is 16dBm)

17dBm at 5.50– 5.70 GHz

Receiver Sensitivity

-70dBm at 54 Mbps to -88dBm at 6 Mbps at 5.15 – 5.25GHz

-70dBm at 54 Mbps to -88dBm at 6 Mbps at 5.25 – 5.35GHz

-67dBm at 54 Mbps to -88dBm at 6 Mbps at 5.725 – 5.825GHz

-69dBm at 54 Mbps to -88dBm at 6 Mbps at 5.50– 5.70GHz

802.11b/g

Frequency Band

2.4 – 2.83 GHz US (FCC), Canada, Europe (ETSI)

2.4 – 2.497 GHz Japan

Modulation Technique

802.11b: CCK, DBPSK, DQPSK (DSSS)

802.11g: BPSK, QPSK, 16-QAM and 64-QAM (OFDM)

Media Access Protocol

CSMA/CA (Collision Avoidance) with ACK

Data Rate

802.11b: 11 Mbps with fall back rates of 5.5, 2 and 1 Mbps per channel

802.11g: 54 Mbps with fall back rates of 48, 36, 24, 18, 12, 9 and 6 Mbps per channel

Output Power

802.11b: 15dBm at 2.412 GHz and 2.472 GHz; 16dBm at 2.417 – 2.467 GHz

802.11g:

2.412 GHz—15dBm at 54 Mbps; 17dBm at 48 Mbps; 18dBm at 36 Mbps; 20dBm at 6 to 24 Mbps

2.417 GHz – 2.467 GHz—14dBm at 54 Mbps; 16dBm at 48 Mbps; 19dBm at 36 Mbps; 20dBm at 6 to 24 Mbps

2.472 GHz—13dBm at 54 Mbps; 15dBm at 48 Mbps; 17dBm at 36 Mbps; 18dBm at 6 to 24 Mbps

Receiver Sensitivity

802.11b: -87dBm at 11 Mbps to -93dBm at 1 Mbps

802.11g: -70dBm at 54 Mbps to -88dBm at 6 Mbps

Estimated Coverage Area in Semi-Open Office (Meters/Feet)

	54Mbps	48Mbps	36Mbps	24Mbps	18Mbps	12Mbps	9Mbps	6Mbps	11Mbps	5.5Mbps	2Mbps	1Mbps
802.11a	25M 80F	35M 115F	40M 130F	45M 148F	50M 165F	55M 180F	66M 215F	70M 230F				
802.11g	20M 66F	25M 82F	35M 115F	43M 141F	50M 165F	57M 187F	71M 233F	80M 262F				
802.11b									66M 216F	85M 279F	90M 295F	93M 305F

Specifications

AC Power Supply

Input: 120-240 VAC; 13.2 watts

Output: 3.3VDC, 4A

Power over Ethernet (DC)

48VDC, 0.27A, 12.96 watts

Interfaces

Wired 10/100 Mbps with full auto-negotiation

Console port RS232

Physical Specifications

Dimensions

21.83 cm (8.6") L x 13.73 cm (5.4") W x 3.27 cm (1.3") D

Weight

0.8 kg (1.76 lbs) (weight does not include plastic décor cover)

Environmental Specifications

Operating Temperature

0° C (32° F) to 55° C (131° F)

Non-Operating Temperature

-20° C (-4° F) to 80° C (176° F)

Operating Humidity

5 to 95% non-condensing

Altitude

-60 meters (-200 feet) below sea level to 4,000 meters (13,125 feet) above sea level

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

RBT3K-AG

RoamAbout AP3000 wireless access point (multiband)

RBT3K-1G

RoamAbout AP3000 wireless access point (single 2.4 GHz band)

RBT3K-AG-G

RoamAbout AP3000 wireless access point (multiband). Made in America for federal customers

CSICD-AW-128

RoamAbout 802.11b PC Card for client

RBTBG-AW

RoamAbout 802.11a/b/g Multimode PC Radio Card for client

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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