

Notice

Enterasys Networks reserves the right to make changes in specifications and other information contained in this document and its web site without prior notice. The reader should in all cases consult Enterasys Networks to determine whether any such changes have been made.

The hardware, firmware, or software described in this document is subject to change without notice.

IN NO EVENT SHALL ENTERASYS NETWORKS BE LIABLE FOR ANY INCIDENTAL, INDIRECT, SPECIAL, OR CONSEQUENTIAL DAMAGES WHATSOEVER (INCLUDING BUT NOT LIMITED TO LOST PROFITS) ARISING OUT OF OR RELATED TO THIS DOCUMENT, WEB SITE, OR THE INFORMATION CONTAINED IN THEM, EVEN IF ENTERASYS NETWORKS HAS BEEN ADVISED OF, KNEW OF, OR SHOULD HAVE KNOWN OF, THE POSSIBILITY OF SUCH DAMAGES.

Enterasys Networks, Inc.
50 Minuteman Road
Andover, MA 01810

© 2004 Enterasys Networks, Inc. All rights reserved.

Part Number: 9033945 February 2004

ENTERASYS, ENTERASYS NETWORKS, NETSIGHT, ROAMABOUT, and any logos associated therewith, are trademarks or registered trademarks of Enterasys Networks, Inc. in the United States and other countries.

All other product names mentioned in this manual may be trademarks or registered trademarks of their respective companies.

FCC Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.



FCC CAUTION: Changes or modifications made to this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

If the RBT3K-AG or RBT3K-AG-G device is going to be operated in 5.15 ~ 5.25GHz frequency range, then it is restricted in indoor environment only.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Enterasys Networks declares that the RBT3K-1G, RBT3K-AG, and RBT3K-AG-G (RoamAbout Access Point 3000) are limited in the 2.4 GHz band on channel 1-11 by specified firmware controlled in USA.

Industry Canada (Canada) - Class B Computing Device:

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Europe - EC Declaration of Conformity

This device complies with Low Voltage Directive 73/23/EEC and EMC Directive 89/336/EEC.

VCCI Notice

This is a Class B product based on the standard of the Voluntary Control Council for Interference from Information Technology Equipment (VCCI). If this is used near a radio or television receiver in a domestic environment, it may cause radio interference. Install and use the equipment according to the instruction manual.

この装置は、情報処理装置等電波障害自主規制協議会（VCCI）の基準に基づくクラスB情報技術装置です。この装置は、家庭環境で使用することを目的としていますが、この装置がラジオやテレビジョン受信機に近接して使用されると受信障害を引き起こすことがあります。取り扱い説明書に従って正しい取り扱いをして下さい。

Specifications

For the complete Access Point 3000 (part number RBT3K-1G, RBT3K-AG, and RBT3K-AG-G) specifications, refer to the *RoamAbout Access Point 3000 Hardware Installation and Configuration Guide*.

Physical Size

21.83 x 13.73 x 3.27 cm (8.60 x 5.40 x 1.29 in.)

Weight

0.80 kg (1.76 lbs)

Power Supply

Input: 100-240 AC, 50-60 Hz

Output: 5.1 VDC, 3A

Power consumption: 13.2 watts

802.1af compliant: input voltage 48 VDC, 0.27A, 12.96 watts

Temperature

Operating: 0 to 55 °C (32 to 131 °F)

Storage: 0 to 70 °C (32 to 158 °F)

Humidity

15% to 95% (non-condensing)

EMC Compliance (Class B)

FCC Class B (US)

ICES-003 (Canada)

VCCI (Japan)

RCR STD-33A

EN55024, EN55022

CISPR 22-96

Radio Signal Certification

RBT3K-AG & RBT3K-AG-G 2.4 GHz & 5 GHz	RBT3K-1G 2.4 GHz Only
FCC part 15.247 (2.4 GHz)	FCC part 15.247 (2.4 GHz)
FCC part 15 15.407(b)	
RSS-210 (Canada)	RSS-210 (Canada)
EN 300.328-1 V1.3.1	EN 300.328-1 V1.3.1
EN 300.328-2 V1.2.1	EN 300.328-2 V1.2.1
EN 301 489-01: V.1.3.1	
EN 301 489-17: V.1.2.1	
EN 301 893: V.1.2.1	
MPT RCR std.33 (D33 1~13 Channel, T66 Channel 14)	MPT RCR std.33 (D33 1~13 Channel, T66 Channel 14)

Safety

CSA/NTRL (CSA 22.2 No. 950 & UL 60950)

EN60950 (TÜV/GS), IEC60950 (CB)

LVD/EN60950

Plenum Rated UL 2043

Standards

IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX, IEEE 802.11a, b, g

Access Point 3000 Overview

The Enterasys Networks Wireless Access Point 3000 is an IEEE 802.11a/b/g (RBT3K-AG & RBT3K-AG-G), or an IEEE 802.11b/g only (RBT3K-1G), access point that provides transparent, wireless high-speed data communications between the wired LAN and fixed, portable or mobile devices equipped with an 802.11a, 802.11b or 802.11g wireless adapter.

This solution offers fast, reliable wireless connectivity with considerable cost savings over wired LANs (which include long-term maintenance overhead for cabling). Using 802.11a, 802.11b, and 802.11g technology, this access point can easily replace a 10 Mbps Ethernet connection and provide seamless integration into a 10/100 Mbps Ethernet LAN.

In addition, the access point offers full network management capabilities through an easy to configure web interface, and a command line interface for initial configuration and troubleshooting.

Installation

Please read the Regulatory, FCC, and specification information before you install the RoamAbout Access Point 3000.



Electrical Hazard: Only qualified personnel should perform installation procedures.



Caution: Ensure that you wear the ESD (Electrical Static Discharge) strap during the installation.

To install the RoamAbout Access Point 3000, perform the following steps:

1. Select a site. Choose a proper place for the access point. The best location is at the center of your wireless coverage area, within line of sight of all wireless devices. Try to place the access point in a position that can best cover its Basic Service Set. Normally, the higher you place the access point, the better the performance.

2. Mount the access point. The access point can be mounted on any horizontal surface or wall.

a. Mounting on a horizontal surface.

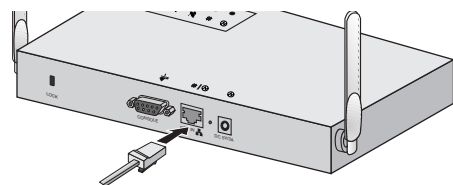
To keep the access point from sliding on the surface, attach the four rubber feet provided in the accessory kit to the embossed circles on the bottom of the access point.

b. Mounting on a wall.

Locate at least two mounting holes/slots on the mounting bracket that line up with a wall stud. Use two screws to secure the mounting bracket to the wall stud. Use plastic anchors, or self-anchoring screws to secure the mounting bracket to the wallboard. Then, slide the access point down onto the screws until the screws are secure.

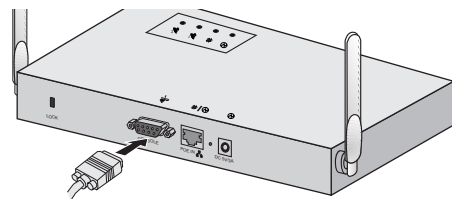
3. Lock the access point in place to prevent unauthorized removal of the access point. You can use a Kensington Slim MicroSaver security cable (not included) to attach the access point to a fixed object.

4. Connect the Ethernet cable. The access point can be wired to a 10/100 Mbps Ethernet through a network device, such as a hub or a switch. Connect your network to the RJ-45 port on the back panel with category 3, 4, or 5 UTP cable. When the access point and the connected device are powered on, the Ethernet Link LED should light indicating a valid network connection.



Note: The RJ-45 port on the access point uses an MDI pin configuration, you must use straight-through cable for network connections to hubs or switches that only have MDI-X ports, and crossover cable for network connections to PCs, servers or other end nodes that only have MDI ports. However, if the device to which you are connecting supports auto-MDI/MDI-X operation, you can use either straight-through or crossover cable.

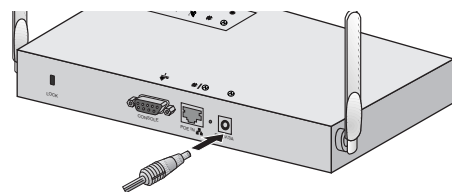
5. Connect the console port. Connect the console cable (included) to the RS-232 console port to access the command-line interface.



6. Connect the power adapter to the access point, and the power cord to an AC power outlet. Otherwise, the access point can derive its operating power directly from the RJ-45 port when connected to a device that provides IEEE 802.3af compliant Power over Ethernet (PoE).



Caution: Use ONLY the power adapter supplied with this access point. Otherwise, the product may be damaged.



7. Observe the self test. When you power on the access point, verify that the PWR indicator stops flashing and remains on, and that the other indicators start functioning. If the PWR LED does not stop flashing, the self test has not completed correctly. Refer to the *RoamAbout Access Point 3000 Hardware Installation and Configuration Guide* for troubleshooting information.

8. Position the antennas. The antennas emit signals along a plane perpendicular to the antenna (with the propagation pattern shaped as a toroidal sphere), and provide more effective coverage when positioned along different axes. For example, you might position the antennas 45 to 90 degrees from each other.

Accessing the Configuration Screens

The Enterasys Networks Access Point 3000 includes a web-based interface and a direct connection to the console port for management. You can also manage the Access Point 3000 using Enterasys Networks NetSight.

Refer to the *RoamAbout Access Point 3000 Hardware Installation and Configuration Guide* for complete information.

Initial Setup Using the Console Port

To connect to the console port, complete the following steps:

1. Connect the console cable to the serial port on a terminal, or a PC running terminal emulation software, and tighten the captive retaining screws on the DB-9 connector.
2. Connect the other end of the cable to the RS-232 serial port on the access point.
3. Make sure the terminal emulation software is set as follows:
 - Select the appropriate serial port (COM port 1 or 2).
 - Set the data rate to 9600 baud.
 - Set the data format to 8 data bits, 1 stop bit, and no parity.
 - Set the flow control to none.
 - Set the emulation mode to VT100.
 - When using HyperTerminal, select **Terminal keys**, not Windows keys.



Note: When using HyperTerminal with Microsoft® Windows® 2000, make sure that you have Windows 2000 Service Pack 2 or later installed. Windows 2000 Service Pack 2 fixes the problem of arrow keys not functioning in HyperTerminal's VT100 emulation. See www.microsoft.com for information on Windows 2000 service packs.

4. Once you have set up the terminal correctly, press the [Enter] key to initiate the console connection. The console login screen is displayed.
5. Log in by entering **admin** for the user name and **password** for the password.

Accessing Web Management

To access the Access Point web management, perform the following steps:

1. Enter the default IP address: **http://192.168.1.1** in your browser window.
2. Enter the username **admin** and the password **password**, and click on **LOGIN**.

Using NetSight

To use NetSight, refer to the documentation that shipped with the software.

Configuration Information Location

Configuration information is located in the *RoamAbout Access Point 3000 Hardware Installation and Configuration Guide*, located on the CD-ROM included in the kit, or available from www.enterasys.com/wireless.

RoamAbout™

ENJOY THE FREEDOM OF WIRELESS NETWORKING

Access Point 3000 Quick Start

ENTERASYS NETWORKS™

ENTERASYS.COM

P/N 9033945