

ROAMABOUT POINT-TO-POINT AND POINT-TO-MULTIPOINT OUTDOOR SOLUTION

Data Sheet



- **Easy to install and manage**
 - Quick and easy installation; no monthly fees; no special permits or licenses required
 - Plug-and-play Access Points provide reliable connectivity without expensive traditional wiring
 - With Access Point Manager, configure and manage Access Points, and determine best antenna orientation to guarantee a reliable link
 - Multichannel operation allows separate, non-overlapping wireless links in the same area
- **Flexibility and investment protection**
 - With flexible configuration for both indoor and outdoor use, eliminates need to purchase new products if environments change
- **Industry-leading security**
 - 128-bit encryption delivers cutting-edge wireless technology without sacrificing security
 - Encryption Key Distribution tools enable easy creation and distribution of key to clients
 - Standard RMON support /SNMP compliant

According to the Wireless LAN Association (WLAN), the wireless industry will experience 40% to 50% annual growth over the next two years.

High-Performance, Seamless Building-to-Building LAN Connectivity

Ideal for any organization with multiple buildings seeking to avoid recurring wide area charges or the installation of a cable plant infrastructure, Enterasys Networks™ RoamAbout Point-to-Point or Point-to-Multipoint Outdoor Solutions extend wireless connectivity for improved user mobility and increased productivity—between two buildings or across an entire campus.

Enterasys RoamAbout Wireless LAN product family is based on the IEEE 802.11, 11 Mbps standard designed to provide seamless wireless data communications. Both indoor and outdoor wireless solutions consist of the award-winning RoamAbout 2000 Access Point and radio cards for in-building applications—external antennas make it an outdoor solution. When the 14dB antennas are added, the outdoor wireless configuration is extended to 3.5 miles at an impressive 11 Mbps throughput. When combined with any third-party 24dB antenna, distances of 25 miles at 11 Mbps can be achieved. You should consult a professional installer for these distances.

Enterprise customers who lease T1 lines or purchase these lines outright will find that the RoamAbout outdoor solution is an extremely easy technology to deploy for remote sites, as well as a viable, cost-effective alternative to traditional T1 lines. There are no licensing or monthly fees!

Enterasys provides all the software management tools needed to easily configure and manage your Access Points and clients. If security is a concern, you should know that Enterasys was the first to offer 128-bit encryption capability for wireless bridges.

The RoamAbout Point-to-Point Outdoor Solution is made up of two Access Points connected to line-of-sight antennas while the RoamAbout Point-to-Multipoint Outdoor Solution consists of multiple access points with line-of-sight antennas which point to a single omni-directional (360°) antenna.

The specific products used in the **RoamAbout Outdoor Point-to-Point** solution include:

- RoamAbout Access Point
- Radio card for Access Point
- Directional antenna
- Lightning arrester
- Low-loss cable



The specific products used in the **RoamAbout Outdoor Point-to-Multipoint** solution include:

- RoamAbout Access Point
- Omni-directional antenna
- Directional antenna
- Radio card for Access Point
- Lightning arrester
- Low-loss cable

RoamAbout Point-to-Point and Point-to-Multipoint Outdoor Solutions allow you to quickly, easily and economically expand your wireless indoor LAN between two buildings or across an entire campus. Seamlessly integrated into any compliant infrastructure, RoamAbout allows you the freedom to provide network connectivity wherever it is needed—regardless of infrastructure.

With the total RoamAbout wireless solution, no user license is required because it uses the ISM (Industrial, Scientific and Medical) band with performance-enhancing 2.4 GHz Direct Sequence Spread Spectrum radius. At the same time, RoamAbout provides the highest security standards in the wireless marketplace, with 40-bit WEP (Wired Privacy Equivalent) or 128-bit (RC4 Algorithm) to ensure secure transmissions.

Today, customers who rely on RoamAbout include health care customers, educational institutions, manufacturing facilities, Fortune 500 and 1000 customers, historical sites and government operations.

Challenge

Providing uninterrupted mobile access—between buildings or across a campus

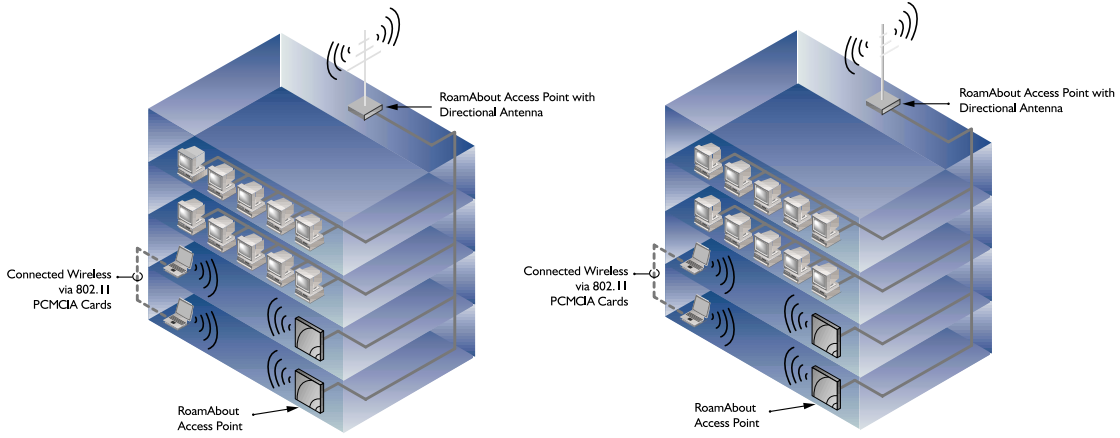
Ensuring the security of data transmissions

Adding to the existing wired network between buildings would be too expensive

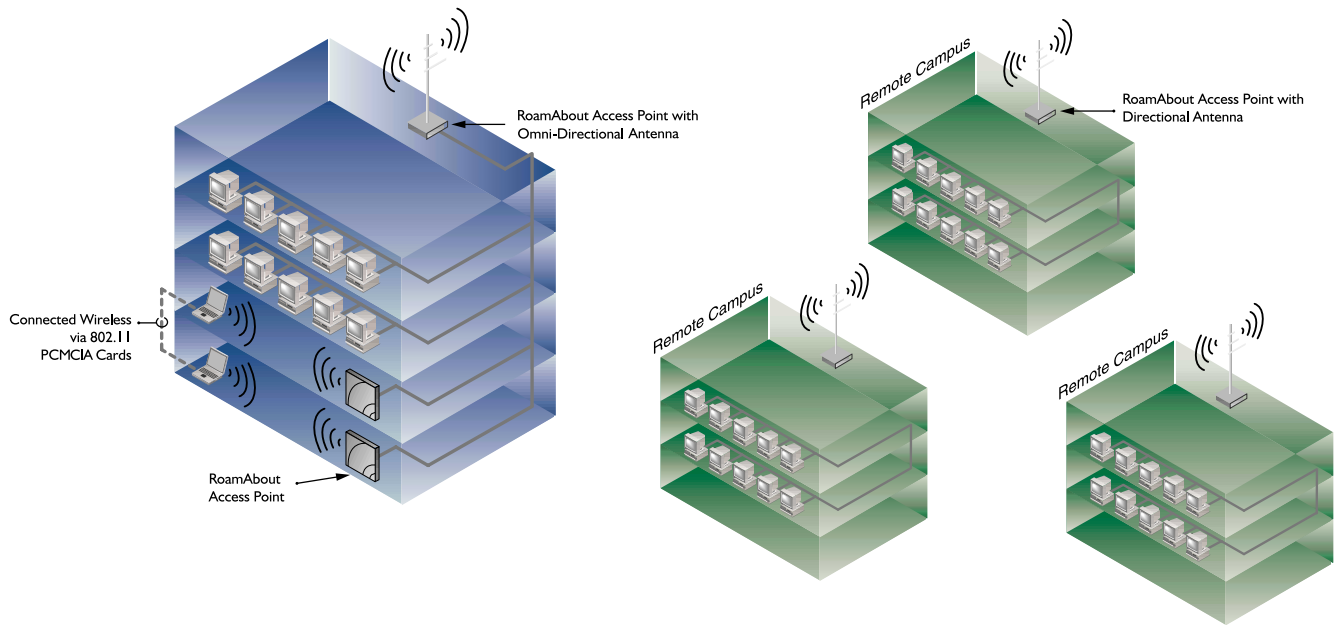
Traditional cabling is impractical on an older, historical campus

Solution

- *RoamAbout outdoor wireless solutions enable users to move throughout an organization—in buildings and out—without interruption*
- *Outdoor solutions bundles include standard 128-bit (RC4 Algorithm) to provide the highest level of security*
- *RoamAbout is easily adopted as an affordable, high-performance alternative to otherwise costly network expansion*
- *Perfect for buildings where wired networks are impractical and expensive, RoamAbout lets you establish mobile network connectivity without traditional cabling*



ENTERASYS POINT-TO-POINT SOLUTION



ENTERASYS POINT-TO-MULTIPOINT SOLUTION

14-dBi Directional Antenna

PHYSICAL SPECIFICATIONS

Size: 18 in (45.7 cm)

Mounting Method: Vertical mast with an outside diameter between 1.4 in (35 mm) and 1.6 in (42 mm) using u-bolts

ELECTRICAL SPECIFICATIONS

Frequency Range: 2.4 GHz

VSWR (Voltage Standing Wave Ratio): Less than 2:1, 1.5:1 nominal

Nominal Impedance: 50 Ohms

Gain: 14-dBi

Front-to-Back Ratio: Greater than 20 dB

Half-Power Bandwidth: (-3dB)

Vertical (E-plane): 30.8°

Horizontal (H-plane): 31.4°

Polarization: Linear, vertical or horizontal

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature: -40°F to 140°F (-40°C to 60°C)

Wind/Survival: At least 80 mph (128 km/h)

7-dBi Omni-Directional Antenna

PHYSICAL SPECIFICATIONS

Size: 18 in (45.7 cm)

Mounting Method: Vertical mast with outside diameter up to 2 in (51mm)

ELECTRICAL SPECIFICATIONS

Frequency Range: 2.4 GHz

VSWR: Less than 2:1 nominal

Nominal Impedance: 50 Ohms

Gain: 7-dBi

Polarization: Linear vertical

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature: -40°F to 140°F (-40°C to 60°C)

Wind/Survival: At least 80 mph (128 km/h)

Wind Surface Area: 0.248 square feet (7.56 square cm)

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RoamAbout Access Point 2000

TECHNICAL SPECIFICATIONS

Frequency Band: 2400 - 2483.5 MHz

Number of Selectable Sub Channels Subject to Local Regulations:

United States (FCC): 11

France (FR): 4

Japan (JP): 14

Other Countries (ETSI): 13

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

Interface: PC Card Type II Extended

Data Rate: 11 Mbps (with fall back rates of 5.5, 2, and 1 Mbps)

Automatic Rate Selection Range: Open Environment. See Chart page 3

Compatibility: Supports Windows 95, 98, Windows NT, Windows 2000, Macintosh, Windows CE and Novell Client 3.x & 4.x

ORDERING INFORMATION

CSIED-**

11 Mbps Outdoor Solution* Bundle. Includes Access Point (CSWS-AA), 14 dBi Yagi antenna (CSIES-AA-Y14), 50' RF cable (CSIES-AA-50), lightning arrester (CSIES-AA-LP), 50 cm pigtail cable (CSIES-AA-PT50), 11 Mbps adapter card with 128 bit encryption (CSIBD-**-128)

*Two kits are needed for each point-to-point link. RoamAbout solutions may also be purchased individually using single part numbers.

CSIED-** M07

11 Mbps Outdoor Solution* Bundle/Center Point for Point-to-Multipoint Configuration (Includes 7 dBi Omni-Directional Antenna)

CSIPT-MP

RoamAbout Multipoint Activation Key

Note: Use -AA for Americas, -AB for Europe/Asia. Components for solution bundles may vary for some countries due to regulatory requirements. Talk to your Enterasys representative or authorized partner for details.

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