RoamAbout 915 MHz and 2.4 GHz direct sequence wireless LAN adapters

High throughput and freedom of mobility for your most demanding computational applications

enVISN
Digital's Networking Architecture

For high-throughput network connectivity that won't tie you down, link in with the RoamAbout 915 MHz and 2.4 GHz Direct Sequence PC Cards or ISA Adapters. They'll stand up to the toughest number-crunching demands for anyone on the move. From the finance department, to the engineering and design centers, to a research library — Digital gives you freedom of mobility, without losing access to vital network information.

Digital's award-winning RoamAbout wireless LAN products let you choose the wireless technology that best suits your mobility needs. Our RoamAbout Direct Sequence PC Cards and ISA Adapters are the ideal choice for financial analysis, graphics-intensive research and design, or other computational applications that depend on wireless connectivity with the highest possible throughput.

These industry-standard wireless LAN adapters allow portable or desktop computers to communicate with other wireless devices using the same technology. What's more, they let you connect to a wired LAN via Digital's RoamAbout Access Point — a full-functioning wireless-to-wired bridge offering the highest bridging performance on the market today. As a result, you have access to all other devices connected to the LAN — either wired or wireless — regardless of the technology they use.

Benefits

• Provide high-throughput wireless connectivity for computationally and graphically intensive applications

• Ensure security and reliability using wireless spread-spectrum direct sequence radio technology

• Give you the freedom to roam, with access to information, services, and devices elsewhere in the building

• Save you from the time and expense of installing and dismantling wired networks

• Support the 915 MHz frequency band in North America and the 2.4 GHz frequency band worldwide

• Make installation fast and easy, designed for "plug and play" in industry-standard PCMCIA or ISA slots

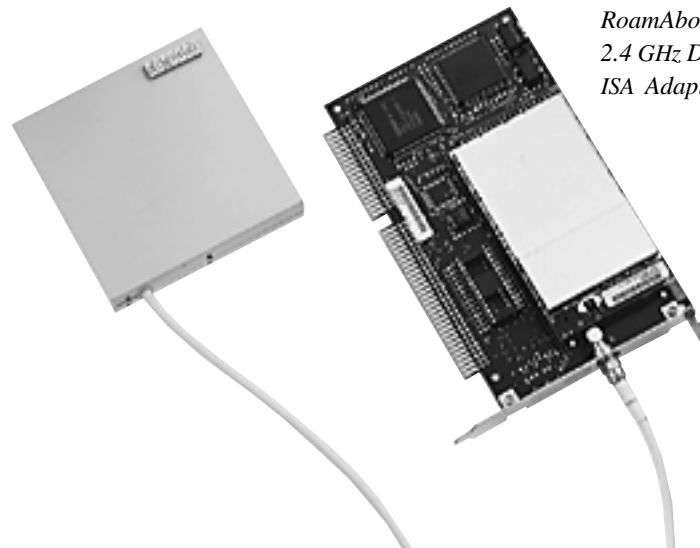*RoamAbout 915 MHz and 2.4 GHz Direct Sequence (DS) PC Card in Digital's HiNote PC*

**Outstanding performance
with quick and easy
wireless connectivity**
The RoamAbout 915 MHz and
2.4 GHz Direct Sequence PC
Cards are high-performance
wireless LAN adapters that fit
into any notebook, laptop, or
pen-based computer equipped
with a Personal Computer
Memory Card International
Association (PCMCIA) Type II
card slot. The RoamAbout
915 MHz and 2.4 GHz Direct
Sequence ISA Adapters give
you the same level of perfor-
mance for any standard PC/AT
desktop system with an industry-
standard ISA bus slot. All LAN
adapters are designed for "plug
and play" installation using your
default settings and include
ODI and NDIS drivers to support
common PC network operating
systems such as PATHWORKS,
LAN Manager, NetWare® and
NetWare Lite. In addition, these
direct sequence wireless LAN
adapters are WaveLAN
compatible.

**Wireless networking for
any environment**
Digital's RoamAbout 915 MHz
and 2.4 GHz Direct Sequence
wireless LAN adapters are the
ideal solution wherever your
work takes you:

• *Service organizations* — such as
hospitals, where high throughput
is critical

• *Dynamic work environments* —
such as engineering, scientific,
and multimedia research teams
using computationally intensive
applications

• *Warehousing and manufactur-
ing facilities* — where accurate
inventory and production infor-
mation needs to be transmitted
from anywhere in the site

• *Temporary settings* — such as
disaster recovery sites, training
facilities, trade shows, and audit
teams — where high throughput
is essential, yet the time and
expense to wire and dismantle
a network can be prohibitive

• *Difficult or impossible-to-wire
environments* — such as
historical sites or buildings
made of steel, concrete, or
asbestos — where physical
structures limit the use of
wired networks

• *High-growth companies* — such
as start-up and high-tech
companies — where office
moves and staff changes are
frequent

*RoamAbout 915 MHz and
2.4 GHz Direct Sequence (DS)
ISA Adapter*

Digital Knows Networks

RoamAbout 915 MHz and 2.4 GHz Direct Sequence (DS)
PC Card in Digital's RoamAbout Access Point

Configuration information

Prerequisite hardware

• Any portable system with an available PCMCIA Type II slot. System must have either Card and Socket Services V2.1 or an Intel® 82365SL PC card controller chip.

• Any 100% compatible PC/AT system with an available ISA bus slot.

Prerequisite software

• MS-DOS® V5.0 or later

One of the following network operating environments:

– Network operating system supporting the NDIS V2.0.1 standard, such as:

– PATHWORKS

– FTP Software Inc.'s PC/TCP™

– Microsoft® LAN Manager V2.0 or later

– Microsoft Windows® for Workgroups

– Network operating system supporting the ODI standard, such as:

– Novell® NetWare V2.X, V3.X, V4.0 or later

– Novell NetWare Lite V1.1 or later

– Personal NetWare

• Windows 95

• Windows NT™

Digital's comprehensive mobile/wireless LAN computing solutions

RoamAbout Access Point — provides the bridge between wireless and wired LANs

RoamAbout 2.4 GHz Frequency Hopping Wireless LAN adapters — provide a secure, steady wireless 2.4 GHz LAN connection for portable computers with a PCMCIA slot and desktop PCs with an ISA bus slot

RoamAbout 2.4 GHz Direct Sequence Wireless LAN adapters — provide a secure, high-performance wireless 2.4 GHz LAN connection for portable computers with a PCMCIA slot and desktop PCs with an ISA bus slot

RoamAbout 915 MHz Direct Sequence Wireless LAN adapters — provide a secure, high-performance wireless 915 MHz LAN connection for portable computers with a PCMCIA slot and desktop PCs with an ISA bus slot

digital™

Specifications

General

	915 MHz	2.4 GHz
Interface	PC card 2.0, Type II slot ISA bus (PC/XT or PC/AT)	
Range	Up to 244 m (800 ft) in open environments	Up to 200 m (656 ft) in open environments
	Unlimited indoor range with RoamAbout roaming	
Data rate	2 Mbps	
Bit error rate (PCMCIA card)	Better than 10^{-8}	
Card size	**Standard PC card** 8.5 cm x 5.4 cm x 0.5 cm (3.4 in x 2.1 in x 0.2 in) $^1/_2$ card for ISA bus (3.9 in x 6.2 in)	
Active antenna and radio unit	**PC card** 11.8 cm x 6.5 cm x 1.6 cm (4.7 in x 2.6 in x 0.6 in) **ISA adapter** 9.8 cm x 9.8 cm x 1.2 cm (3.8 in x 3.8 in x 0.6 in)	
Cable length	**PC card** 45 cm (18 in) **ISA adapter** 240 cm (96 in)	

Networking

Architecture	Supports client/server and peer-to-peer networking
Drivers included	ODI (NetWare V2.X, V3.X, V4.X, Personal NetWare) NDIS (Windows 95, Windows for Workgroups, LAN Manager, LANtastic, PATHWORKS)
Media access protocol	CSMA/CA
Error detection/ correction	Spread spectrum encoding, decoding
Ethernet standard compliance	Ethernet packet types
Security	Available with over 65 K network IDs DES-encrypted versions available

Radio

	915 MHz	2.4 GHz
Frequency band	902 – 928 MHz	2.4 – 2.4835 GHz
Radio type	Spread spectrum	
Spread spectrum technique	Direct sequence	
Independent channels	1	8
Output power	PC card: 250 mW ISA adapter: 200 mW	PC card: 50 mW ISA adapter: 200 mW
Power consumption with PC cards	Sleep mode: 35 mA Receive mode: 295 mA Receive mode: 600 mA	Sleep mode: 35 mA Transmit mode: 365 mA Transmit mode: 315 mA
	Unlimited indoor range with RoamAbout roaming	

How to order

To order, contact your local authorized Digital Business Partner and refer to the part numbers provided below. For the name of the Digital reseller nearest you, call 800-457-8211 throughout North America; worldwide call the U.S. at +1 508-692-2562. Information is also available on the World Wide Web:

U.S.	**http://www.networks.digital.com**
Europe	**http://www.networks.europe.digital.com**
Australia	**http://www.digital.com.au/networks**
Japan	**http://www.dec-j.co.jp/ic/network**

Digital part number	Description
DEINA-AA	RoamAbout 915 MHz Direct Sequence PC Card
DEIWA-AA	RoamAbout 915 MHz Direct Sequence ISA Adapter
DEIWB-xx	RoamAbout 2.4 GHz Direct Sequence PC Card
DEIWA-xx	RoamAbout 2.4 GHz Direct Sequence ISA Adapter