digital™

Networks

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.

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

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

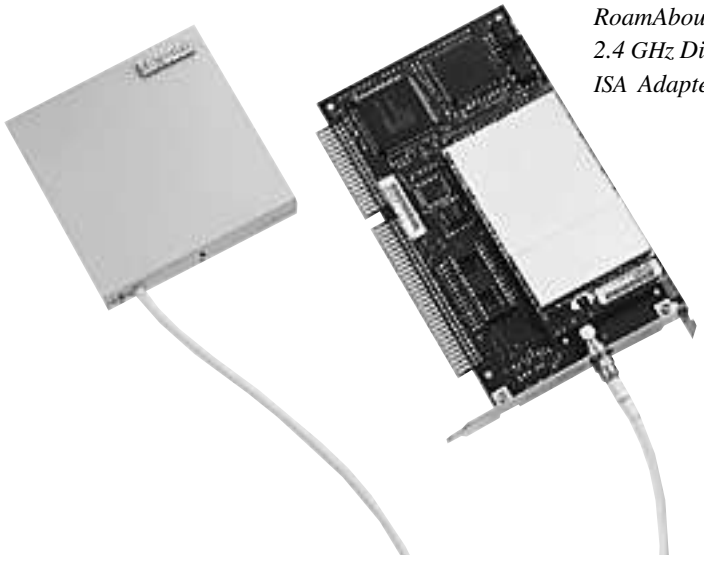
Outstanding performance with quick and easy wireless connectivity

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 performance 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 manufacturing facilities* — where accurate inventory and production information 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

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

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™

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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

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