

LA 41X3 PCI Adapter



Spectrum24® High Rate

IEEE 802.11b, DIRECT SEQUENCE,
11 Mbps WIRELESS LAN

IEEE 802.11b Ethernet-speed Plug-and-Play Wireless Connectivity Between Wireless LANs and PCI-Slot Devices

Based on the IEEE 802.11b open standard for wireless local area networking, the Spectrum24 High Rate (HR) LA 41X3 is a wireless network interface card for PC and PC-compatible devices with a PCI interface. The LA 41X3 plugs into desktop computers and cash registers, providing high-throughput, Ethernet-speed connectivity to vital network resources including price and promotional files for retailers, and office applications including e-mail and intranet/Internet access. Its direct sequence spread spectrum transmission technology is ideal for supporting high-throughput applications – at associates' desktops or in conference rooms and other facilities – such as training course material, CAD/CAM files, video and rapid image transfer,



and presentations. Plus, the LA 41X3 eliminates the expense and time of wiring when your IT requirements call for temporary, seasonal, capacity-driven, and kiosk networking.

Changing your enterprise LAN or installing new computers becomes a matter of simply placing equipment wherever it is needed. Activities benefiting from the LA 41X3 include:

- ▶ Kiosks in malls, airports, museums and other environments where interactive programs depend on high-speed remote data retrieval.

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Features

11 Mbps direct sequence (DS) high data rate transmission

IEEE 802.11b compliant

Automatic data rate and channel selection of 1, 2, 5.5 and 11 Mbps

Very low power consumption

Fast software upgrade via FLASH memory

Supports all popular network operating systems

Semi-slot form factor: 6 in. L x 4 in. W x 0.5 in. H /
16.2 cm L x 10.2 cm W x 1.3 cm H

Dual connectors for external antenna

Commitment to open standards at every hardware
and software interface including IEEE 802.11,
HTML user interface, NIC utilities

Wired Equivalent Privacy (WEP) encryption and decryption

Scalable

Broad product range

Complete SymbolCare™ Service and support

Wi-Fi™ certified

User-friendly client tools

Benefits

Supports bandwidth-demanding applications and high-speed data transmission

Fully interoperable wireless networking based on the high rate standard

Optimized throughput

Extended battery life

Simplified PC card update and maintenance

Reduces programming time and enables fast integration with enterprise systems

Easily fits cash registers and other PCI-compatible devices

Can be adapted to meet site conditions

Bridges communication paths between wired and wireless network segments

Uses diverse application tools in the same wireless LAN environment

Integrates seamlessly with existing systems

Ensures interoperability with wireless LAN devices from other vendors

Protects your investment by ensuring migration path

Powerful data security at 64 and 128 bits

Adding an access point expands coverage and capacity

Symbol offers a full range of products that let you configure your Spectrum24 WLAN quickly and easily, and to manage it with troubleshooting and diagnostic tools

Count on Symbol to help you specify, configure, install and support your wireless LAN

Ensures interoperability among other Wi-Fi certified wireless systems for investment protection and system architecture flexibility

NICTT-Task tray applet that monitors a Spectrum24 WLAN card

My WLAN Places–interface that creates profiles of WLAN client information

- ▶ Wireless network PCs in environments where wiring isn't possible, such as landmark buildings or sites with asbestos considerations.
- ▶ Manufacturing workstations where production line layouts are frequently changed.
- ▶ Retail point-of-sale stations to accommodate new floor plans for merchandising, sidewalk sales, and seasonal and promotional activities.

Easy Access to Vital Information

Devices equipped with the LA 41X3 PCI Card—along with other Spectrum24 HR-compatible hand-held and fixed-mount computers and laptop devices equipped with the Spectrum24 High Rate LA 41X1 PC card—communicate with the Spectrum24 High Rate AP 41X1 Ethernet Access Point. The AP 41X1 serves as the connectivity point to your wired network or the hub of a standalone wireless network. Wherever critical computing devices are located, the Spectrum24 HR LA 41X3 PCI Card and AP 41X1 Access Point provide fast access to vital information.

Wi-Fi™ Interoperable

Symbol's AP 41X1 bears the Wi-Fi logo, a mark granted as the official "seal of interoperability" by the Wireless Ethernet Compatibility Alliance (WECA). Only select wireless networking products possess this characteristic of IEEE 802.11b. This standard provides system architecture flexibility and investment protection for 802.11b interoperable installations.

Fast and Easy Installation

The LA 41X3 PCI Card is fast and easy to install, and includes all popular industry-standard ODI and NDIS drivers as well as full documentation for fast integration. Its semi-slot form factor easily fits cash registers and other PC-compatible devices having limited space. The "plug and play" feature automatically configures the LA 41X3; once implemented, it quickly and accurately connects to the Symbol Spectrum24 HR Wireless LAN.

Easy Administration and Network Management

LA 41X3 PCI Card-equipped devices are administered using a number of quick installation, maintenance, and upgrade management tools. In addition, you can manage your entire

WLAN installation using Symbol's SpectrumSoft™ suite of tools, including software for monitoring and controlling network activity and performance. SpectrumSoft offers Web-based tools for fast application development, and supports three-tier client/server architecture for Internet- and intranet-based thin-client connection to your servers and host systems.

Extending Information Wirelessly

With more than 70,000 wireless LAN sites installed, Symbol's global wireless industry leadership is founded on a comprehensive range of innovative technologies and knowledgeable services. Spectrum24 brings you a unique combination of benefits that enable your organization's end-to-end mobile computing strategy and optimizes the capture, computing and communication of data crucial to business decision-making and success.

Spectrum24 High Rate Wireless LAN Specification Highlights

Radio Characteristics	
Frequency Range:	Worldwide product covering 2.4 to 2.5 GHz, programmable for different country regulations
Data Rate:	11 Mbps per channel maximum
Output Power:	100 mW
Power Management:	Continuous Aware and Power Saving Modes
Range:	Data throughput scaled to support up to 1500 ft./450 m outdoors and up to 300 ft./90 m indoors
TX Maximum Radiated EIRP:	FCC regulations part 15.247 in U.S.; ETS 300 328 in Europe; RCR STD-33 in Japan
Modulation:	Direct Sequence Spread Spectrum (DSSS) with BPSK (1 Mbps), QPSK (2 Mbps), and CCK (5.5 and 11 Mbps)
TX Out-of-Band Emissions:	FCC regulations part 15.247, 15.205, 15.209 in U.S.; ETS 300 328 in Europe; RCR STD-33 in Japan
Operating Temperature:	-20° to 70° C/-4° to 158° F
Storage Temperature:	-30° to 80° C/-22° to 176° F
Network Characteristics	
Driver Software Support:	Microsoft Windows 95/98, Windows 2000, Windows ME, future Windows NT 4.0; NDIS 4 and 5
Access Protocol:	CSMA/CA
Roaming:	Virtually instantaneous



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