

LA 3021 PC Adapter



Spectrum24®

IEEE 802.11, FREQUENCY HOPPING,
2 Mbps WIRELESS LAN

IEEE 802.11 Connectivity for High Performance Wireless Mobile Computing Solutions

Providing mobility and extended networking throughout your enterprise is quick and easy with the Spectrum24 LA 3021 PC Card. Simply insert the IEEE 802.11 LA 3021 wireless network interface card into any laptop or other device with a PC card slot and users are enabled with high-throughput connectivity for wireless data communications, gaining full mobility while staying connected to the wired LAN. Based on frequency hopping spread spectrum technology, the 2 Mbps LA 3021 PC Card supports high data throughput at ranges of up to 2,000 ft./606 m.

The LA 3021's support for the ITU H.323 standard also provides voice-over-IP communications for applications such as Microsoft® NetMeeting® running on voice-enabled devices



including many laptop and desktop computers. Devices equipped with the LA 3021, along with other Spectrum24-compatible hand-held and fixed-mount computers, communicate with the Spectrum24 AP 3021 Access Point which serves as the connectivity point to your wired network. Wherever associates are located, from sales floors to manufacturing areas, the LA 3021 provides fast access to vital information.

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Features

Frequency Hopping Spread Spectrum (FHSS) Transmission

Support for Mobile IP

Very low power consumption

Fast software upgrade via FLASH memory

Supports all popular network operating systems

Wired Equivalent Privacy (WEP) encryption and decryption

One-piece PC card design

Ridged or external antenna

Standards: Commitment to open standards at every hardware and software interface including IEEE 802.11, HTML user interface, ITU H.323 voice-over-IP, NIC utilities

2.4 to 2.5 GHz Band

2 Mbps Data Rate

Scalable

Computing Devices with Wireless PC Cards

Complete SymbolCareSM Service and support

Benefits

FHSS provides increased capacity, superior interference immunity, high-design throughput and multi-path rejection for continuous, real-time data transfer

Enables seamless roaming between network segments

Extended battery life

Simplified PC card update and maintenance

Reduce programming time and enable fast integration with enterprise systems

Powerful data security at 64 bits

Provides durable and rugged wireless capability

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 Supports technology that's already installed; integrates seamlessly with existing systems

Ensures interoperability with wireless LAN devices from other vendors

Protects your investment by ensuring migration path

Enables converged voice and data on one wireless LAN

Worldwide acceptance is ideal for multinational users

Quick data transfer suitable for voice-over-IP and data applications

Adding an access point expands coverage and capacity to meet your needs

A complete line of Symbol-designed-and-manufactured Spectrum24-compatible terminals meets your application needs

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

Easy Setup and Maintenance

The LA 3021 PC Card provides a low-maintenance connectivity option for active mobile users. Its power management capabilities help to ensure a very low rate of power consumption, extending the battery life of mobile devices. Industry-standard ODI and NDIS drivers reduce programming time, as well as provide full documentation for fast configuration.

Easy Administration and Network Management

Client devices using the LA 3021 PC Card 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 Wireless LAN Specifications

Radio Characteristics

Frequency Range:	Worldwide product covering 2.4 to 2.5 GHz, programmable for different country regulations
Frequency Hopping:	Number of hops: 79 in U.S. and Europe (35 in France and 27 in Spain); 23 in Japan; programmable to meet regulations of all other countries. Hopping rate: 10 hops/sec. Hopping sequences: 66
Data Rate:	2 Mbps per channel with Dynamic Rate Scaling to 1 Mbps for extended range
Output Power:	500 mW and 100 mW versions available
Power Management:	Power Consumption: Continuous Aware Mode Power Saving Mode: Sleep Mode: 3 mA Receive: 500 mW = 375 mA, 100 mW = 375 mA both @ 5 V Transmit: 500 mW = 500-675 mA, 100 mW = 450-600 mA both @ 5 V
Range:	Up to 2,000 ft./606 m in open environments; up to 250 ft./75.5 m in a typical office or retail space
TX Maximum Radiated EIRP:	FCC regulations part 15.247 in U.S.; ETS 300 328 in Europe; RCR STD-33 in Japan
Modulation:	Binary GFSK, and 4GFSK for 2 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:	32° to 120°F/0° to 50°C
Storage Temperature:	-5° to 140°F/-20° to 60°C

Network Characteristics

Driver Software Support:	Microsoft Windows 95/98, Windows NT 4.0, 3.51, Windows CE 2.0, 2.11, future Windows 2000; ODI Version 1.6, future enhancements to version 4.0; NDIS version 2.01, future enhancement to version 3.0
Access Protocol:	CSMA/CA
Roaming:	2 Mbps per channel with Dynamic Rate Scaling to 1 Mbps for extended range; virtually instantaneous



Specifications are subject to change without notice.

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For system, product or services availability and specific information within your country, please contact your local Symbol Technologies office or Business Partner.



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