

LA 3026 ISA Adapter



Spectrum24®

IEEE 802.11, FREQUENCY HOPPING,
2 Mbps WIRELESS LAN

IEEE 802.11 Wireless Connectivity for ISA-Slot Computing Devices

The Spectrum24 LA 3026 ISA Card is an ideal solution for users requiring network connectivity and the flexibility to rearrange locations of ISA bus workstations – wirelessly and without interruption.

Based on frequency hopping spread spectrum technology, the LA 3026 ISA Card is designed to IEEE 802.11 wireless local area network standards and supports 2 Mbps high data throughput and robust data communication at ranges of up to 2,000 ft./606 m.

Fast, Flexible Installation

The fast, easy to install LA 3026 ISA Card includes all popular industry-standard ODI and NDIS drivers as well as full documentation for fast integration and reduced programming time. Its semi-slot form factor easily fits cash registers and other PC-compatible devices having limited space, installing into any desktop PC and PC-compatible point-of-sale system with ISA bus interfaces.



The “plug and play” feature automatically configures the LA 3026; once implemented, it quickly and accurately connects to the Symbol Spectrum24 Wireless LAN. As workstations are rearranged, the LA 3026 reconfigures and reconnects to deliver uninterrupted network connectivity. Changing your enterprise LAN or installing new workstations becomes a matter of simply placing equipment wherever it is needed, without the expense or delay of wiring.

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Features	Benefits
Frequency Hopping Spread Spectrum (FHSS) Transmission up to 2 Mbps	FHSS provides increased capacity, high-design throughput and superior interference immunity, multi-path rejection for continuous, real-time data transfer
Automatic data rate selection of 1 or 2 Mbps	Optimized range and throughput
“Plug and play” capability	Automatically accommodates changing LAN configurations
Very low power consumption	Extended battery life
Supports all popular network operating systems	Reduce programming time and enable fast integration with enterprise systems
Wired Equivalent Privacy (WEP) encryption and decryption	Powerful data security at 64 bits
Semi-slot form factor; 6.2 in. L x 4.2 in. W x 0.7 in. H/ 15.8 cm L x 10.6 cm W x 2 cm H	Easily fits cash registers and other PC-compatible devices
Standards: Commitment to open standards at every hardware and software interface including IEEE 802.11, HTML user interface, NIC utilities	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
2.4 to 2.5 GHz Band	Worldwide acceptance is ideal for multinational users
Complete SymbolCare SM Service and support	Count on Symbol to help you specify, configure, install and support your wireless LAN

Ideal for Multiple Applications

With the LA 3026, you can easily accommodate temporary, seasonal and capacity-driven activities that require changing your network layout, including:

- ▶ 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.
- ▶ Kiosks in malls, airports, museums and other environments where interactive programs depend on high-speed remote data retrieval.
- ▶ Wireless network PCs in environments where wiring isn't possible, such as landmark buildings or sites with asbestos considerations.

Easy Administration and Network Management

LA 3026 ISA 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 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 Switch 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./606m in open environments; up to 250 ft./75.5m 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 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 Switch to 1 Mbps for extended range; virtually instantaneous



Specifications are subject to change without notice.

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