CB 3021 Client Bridge

symbol®

Spectrum24®

Wireless LAN Interface for Serial and Ethernet Devices

The Spectrum24 Wireless LAN CB 3021 Client Bridge extends wireless networking capabilities to printers, scales, medical equipment, manufacturing machinery, bar code readers, time clocks, point-of-sale, and other data collection devices. It provides a reliable, cost-effective interface between Symbol Spectrum24 Wireless LAN Access Points and devices utilizing RS-232 serial or Ethernet ports.

Reliable Connectivity for Serial Devices

The CB 3021 has an on-board TCP/IP stack to provide a reliable transport mechanism for serial data. The CB 3021 can initiate a permanent client connection to your server or accept data grams from multiple sources. Baud rates up to 115,200 can be supported with hardware or software flow control.

Supports Multiple Ethernet Client Devices

Multiple Ethernet devices can share one CB 3021 through an inexpensive hub. This feature saves equipment costs when several data volume devices require wireless Ethernet connectivity.

IEEE Standards Based

The CB 3021 is based on frequency hopping spread spectrum (FHSS) technology and designed to IEEE 802.11 wireless LAN standards. It transmits data at up to 2 Mbps and to ranges of up to 2,000 ft./606 m. Its wide temperature range and robust mechanical design deliver reliable performance in the most demanding environments.

Designed for Easy Configuration

The CB 3021 can be configured for your wireless installation, TCP stack choices, and serial data parameters. You can access the parameter menu with a serial based terminal emulator or from Ethernet-based Telnet. All configuration parameters are saved in non-volatile FLASH memory, easing system setup and expansion. Firmware is also stored in FLASH and can be upgraded with a utility program.

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.

Features	Benefits
Frequency hopping up to 2 Mbps	Robust, reliable radio frequency transmission technology
Output up to 500mW US/100mW International	Extended range indoors and out
Easy configuration	To flexibly meet changing application requirements
2.4 to 2.5 GHz Band	Worldwide acceptance is ideal for multinational organizations deploying a unified solution
Support for international roaming	Worldwide communications using the same hand-held device
A variety of connectivity options including TCP and DSMU	Reliable data transport protocols
Wired Equivalent Privacy (WEP) encryption/and decryption	Powerful data security
Wide temperature range and robust mechanical design	Delivers reliable, top performance in the most demanding environments
A selection of antennas	Fulfills a wide range of environmental and aesthetic requirements
Standards: Commitment to open standards at every hardware and software interface including IEEE 802.11	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
Frequency Hopping Spread Spectrum (FHSS) Transmission	FHSS provides increased capacity, superior interference immunity, high-design throughput and multi-path rejection for continuous, real-time data transfer
Complete SymbolCare℠ Service and support	Count on Symbol to help you specify, configure, install and support your wireless LAN

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: 100 hops/sec. Hopping sequences: 66**
Data Rate:	**2 Mbps per channel**
Output Power:	**500 mW and 100 mW versions available**
Power Management:	**Power Consumption:** Continuous Aware Mode **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 180 to 250 ft./54.5 to 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**
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**

Client Bridge Specifications

Power Supply:	**5.2 Volt Regulated. 1 Amp supply**
Size:	**5.4 in. x 3.5 in. x .88 in.: 138 cm x 89 cm x 23 cm**
Serial Port:	**DB9 female with optional hardware flow control, Baud rates 9600-115,200**
Ethernet Port:	**10BaseT with straight-through RG-45**
Antenna Connector:	**Reverse BNC**

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