Wavespeed™/S

Bluetooth® Wireless Serial Adapter

Eliminate serial cables and increase user mobility.
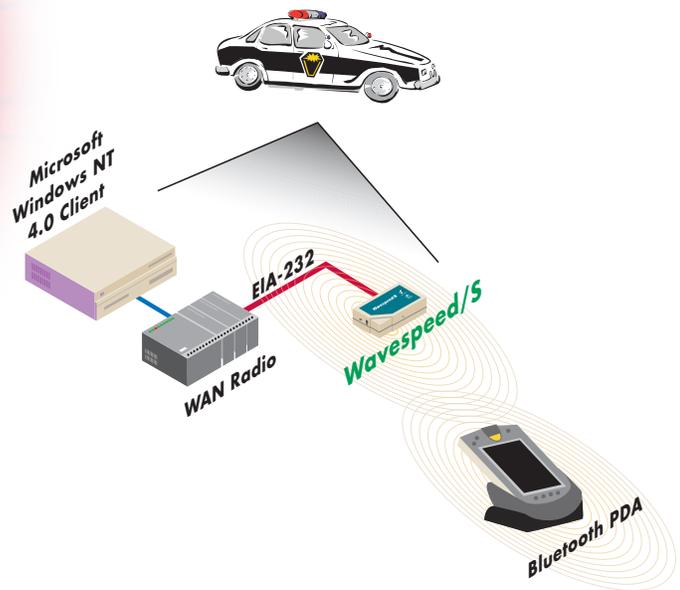
Features/Benefits

> **Standalone solution connects to peripheral device or host for instant serial cable replacement**

> **Creates wireless serial link transparent to application software**

> **Bluetooth 1.1 compliant**

> **Increases user mobility and reduces cabling expenses**

> **Operating system independent**

> **Utilizes secure, standards-based technology for reliable data transfer**

> **In-range/out-of-range indicator enables event triggering, increases security.**

> **Choose between two radio types based upon distance requirements**

Overview

Wavespeed/S utilizes Bluetooth technology to offer a secure, standards-based solution to enable wireless EIA-232 serial cable replacement between a peripheral device and a host. This standalone solution is transparent to the host application software – it acts as the serial cable and transfers data wirelessly without special software or drivers. Wavespeed/S is designed for use in either bonding mode or Serial Port Profile (SPP) server mode.

In bonding mode, two Wavespeed/S adapters are paired together, forming a wireless link for instant serial cable replacement. One Wavespeed/S is connected to a host PC; the other is attached to a serial peripheral device like a bar-code scanner, receipt printer or scale. Following configuration, these two Wavespeed/S adapters transfer information between the host and device, just as if they were joined by a hardwired serial cable. Alternatively, a single Wavespeed/S adapter may be used in SPP server mode. In this mode, Wavespeed/S will make a SPP for connection with any SPP-capable Bluetooth device, such as a PDA, PLC or WAN radio.

Wavespeed/S provides wireless data transfer up to 100 meters with the Class 1 radio and up to 10 meters with the Class 2 radio. Security is ensured with features like encryption, authentication and adjustable transmit range. Wavespeed/S instantly increases user mobility in mobile computing (emergency vehicles, delivery trucks), point-of-sale and other mission-critical applications.

Inside Out Networks, a Digi International company, is the leader in enterprise USB connectivity. Digi International, the leader in Connectware, makes device networking easy by developing products and technologies that are cost-effective and easy to use. With over 20 million ports shipped worldwide, Digi has been offering the highest levels of performance, flexibility, and quality since 1985.

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Making
DEVICE NETWORKING
easy ™

Features/Specifications

FEATURES

- EIA-232 serial DB-9 (female) to wireless
- Bluetooth 1.1 compliant
- Class 1 radio distance: 100 meters (328.08 feet)
- Class 2 radio distance: 10 meters (32.81 feet)
- Software configurable as DTE or DCE device type
- Frequency: 2.4GHz
- Baud rate (bps): 300, 1200, 2400, 4800, 7200, 9600, 19200, 38400, 57600 or 115200
- Data bits: 8, 7
- Stop bits: 1, 2
- Parity: none, odd, even
- Flow control: none, software (user-specified XON/XOFF), hardware (RTS/CTS)
- LED for device, software and wireless link status
- Frequency Hopping Spread Spectrum (FHSS)
- In range/out of range indicator (API available)
  - Determine when two devices are inside or outside communication range
  - Create event triggers for host application
  - Adjustable timeout length

OPERATING SYSTEMS
(FOR INITIAL CONFIGURATION)

- Microsoft® Windows® 95
- Microsoft Windows 98/SE
- Microsoft Windows 2000/Me
- Microsoft Windows XP
- Microsoft Windows NT®
- Microsoft Windows NT Embedded

REGULATORY APPROVALS

- FCC Part 15, Class B
- CE
- EN55022
- EN55024
- EN60950
- UL 1950
- CSA 2.2 No. 950
- IEC-950

ENVIRONMENTAL

- Operating temperature: 0˚ C to 65˚ C (32º to 149º F)
- Storage temperature: -25º C to 80º C (-13º F to 176º F)
- Relative humidity: 0% to 95% (non-condensing)

DIMENSIONS

- Length: 4.03 in (10.24 cm) with mounting tab and connector extension
- Width: 2.16 in (5.47 cm) with mounting tab
- Height: 1.36 in (3.45 cm)
- Weight: 2.0 oz (56.70 gm)

POWER REQUIREMENTS

- Ships with 90/264 VAC 47/63 Hz at 5Vdc @ 3 Amps max
- Power consumption: 100mA (normal); 160mA (maximum)
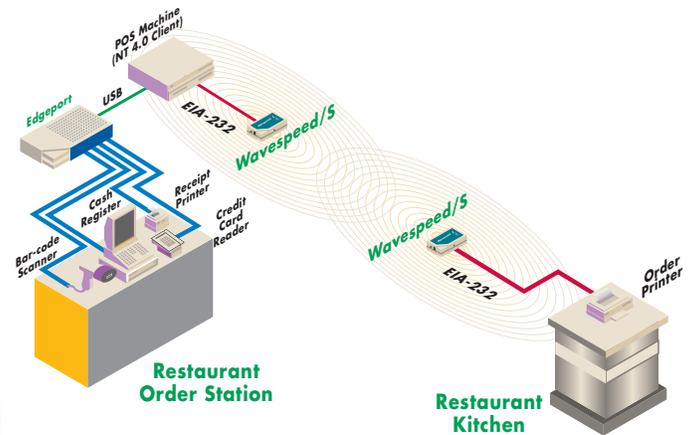
MODEL.....................PART NUMBERS

Model	North America	International
Wavespeed/S Class 1	301-1121-01	301-2121-01
Wavespeed/S Class 1 Pair	301-1123-01	301-2123-01
Wavespeed/S Class 2	301-1122-01	301-2122-01
Wavespeed/S Class 2 Pair	301-1124-01	301-2124-01

DIGI SERVICE AND SUPPORT

You can purchase with confidence knowing that Digi is here to support you with expert technical support and a strong five-year warranty.   http://support.digi.com

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