# Edgeport®

**USB-to-Serial Converters**

**Easy out-of-the-box solution for I/O expansion is available in a wide variety of configurations for maximum flexibility and scalability.**



Edgeport/4
USB Expansion Module

# Overview

Edgeport USB-to-serial converters offer instant I/O expansion for peripheral device connectivity. An out-of-the-box (external) alternative to PCI cards, Edgeport makes it easy to add serial and USB ports to a PC, server or thin client in minutes – without opening the chassis, reconfiguring or rebooting the system.

Edgeport is available in multiple configurations for maximum flexibility and scalability. Choose from compact form factors for space-prohibitive applications; single port "bump-in-the-cable" solutions for notebook expansion; software-selectable RS-232/422/485 models to connect any type of serial device to one box; metal enclosures for rugged applications; models with galvanic isolated ports for extended electrical safety; and DB-9, DB-25 or RJ-45 connectors to meet cabling requirements.

Feature-rich design, reliability and unmatched operating system support make Edgeport USB-to-serial converters ideal for mission-critical enterprise applications.
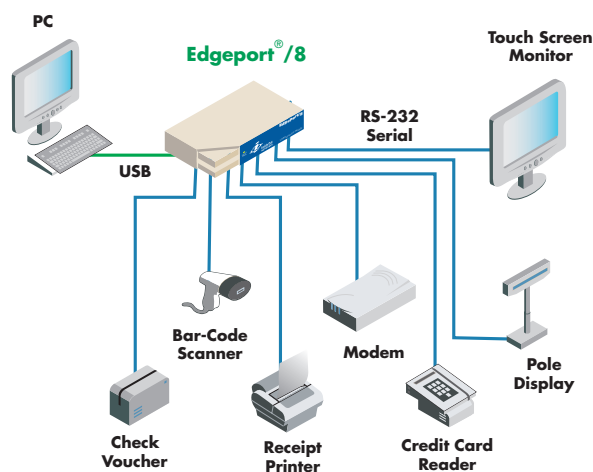
## Target Applications


**Industrial Automation**


**Retail/POS**


**Medical/Healthcare**

## Application Highlight

### POS Connectivity



PC

Edgeport®/8

Touch Screen Monitor

RS-232 Serial

USB

Bar-Code Scanner

Modem

Pole Display

Check Voucher

Receipt Printer

Credit Card Reader

## Features/Benefits

- **Add 1, 2, 4, 8 or 16 serial ports to a PC, thin client or server in minutes**

- **Designed for peripheral device connectivity in retail stations, self check-out systems, emergency vehicles, kiosks, ATMs and more**

- **Software selectable MEI, galvanic isolated, industrial, compact and metal models**

- **Low total cost of ownership with external, user-installable solution**



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| Specifications | Edgeport® Serial | Edgeport® Extended Safety | Edgeport® Industrial |
|---|---|---|---|
| **Interfaces (Varies by Model)** | | | |
| **Serial Ports** | 1, 2, 4, 8 or 16 | 4 (separately isolated) | 1, 2, 4 or 8 |
| **Serial Type** | RS-232 | RS-232/422/485 | RS-232, RS-422, RS-422/485, software select-able<br>RS-232/422/485 |
| **Serial Connector** | DB-9, DB-25 or RJ-45 | DB-9 | DB-9 |
| **Serial Data Rate** | 230 Kbps per port simultaneously | | |
| **Downstream USB Ports** | 4 (16-port models only) | 1 (separately isolated) | 0 |
| **Features** | | | |
| **USB** | USB 1.0 and USB 1.1 compatible; backwards compatibility for USB 2.0 and USB 3.0; USB-IF certified; Plug and Play | | |
| **LEDs** | Tri-state LED displays device status and COM port activity | | |
| **Operating Systems** | Windows® 8, Windows 7, Windows Vista®, Windows Server 2012, Windows Server® 2008 R2, Windows XP®, Windows XP Embedded, Windows CE 5, Windows CE 6 (x86 only), Windows Server® 2003 R2, Windows 2000; Linux*, Sun Solaris (SPARC)** | | |
| **Cables** | 1-meter USB cable | | |
| **Other (General)** | Automatic port reacquisition; COM port assignments maintained across reboots; Full hardware and software flow control; No additional IRQ or memory address requirements; Low power consumption; Rack mountable; Hot-swappable; Bulk packaging and customized cabling options | | |
| **Other (Model-Specific)** | N/A | 2.0 kV DC galvanic isolation on all ports | N/A |
| **Power Requirements** | | | |
| **Power Supply** | External power supply not required for models without USB ports (USB powered); Models with USB ports (Edgeport/421, Edgeport 416) ship with plug-mounted power supply: 120/230VAC 60/50 Hz at 5VDC @ 3 Amps max | | |
| **Environmental** | | | |
| **Operating Temperature** | 0° C to 55° C (32° F to 131° F) | | |
| **Relative Humidity** | 0% to 95% (non-condensing) | | |
| **Regulatory Approvals** | | | |
| **Safety** | EN60950, UL 1950, CSA 2.2 No. 950, IEC 950 | | |
| **Emissions/Immunity** | CE, FCC Part 15 Class B, EN55022, EN55024 | | |

*Driver support provided by Linux USB maintainers.
**Driver support provided by Sun.

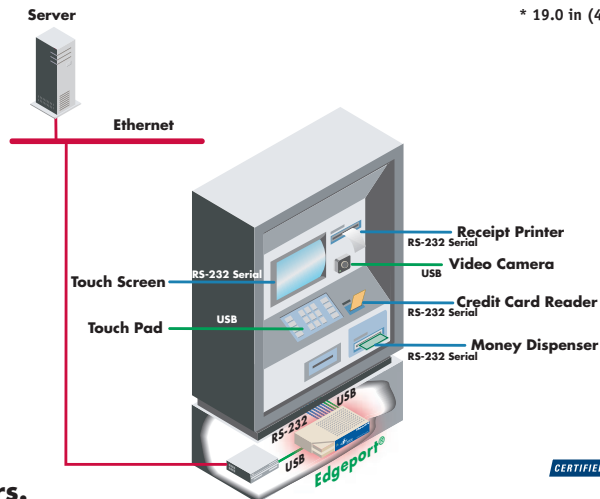| Specifications | Edgeport® Compact | Edgeport® Metal |
|---|---|---|
| **Interfaces (Varies by Model)** | | |
| **Serial Ports** | 2 | 2 or 4 |
| **Serial Type** | RS-232 | RS-232 |
| **Serial Connector** | DB-9 | |
| **Serial Data Rate** | 230 Kbps per port simultaneously | |
| **Downstream USB Ports** | 2 | 0 |
| **Other Ports** | N/A | N/A |
| **Features** | | |
| **USB** | USB 1.0 and USB 1.1 compatible; backwards compatibility for USB 2.0 and USB 3.0; USB-IF certified; Plug and Play | |
| **LEDs** | Tri-state LED displays device status and COM port activity | |
| **Operating Systems** | Windows® 8, Windows 7, Windows Vista®, Windows Server 2012, Windows Server® 2008 R2, Windows XP®, Windows XP Embedded, Windows CE 5, Windows CE 6 (x86 only), Windows Server® 2003 R2, Windows 2000; Linux*, Sun Solaris (SPARC)** | |
| **Cables** | Captive 2-meter cable for secure connection in rugged environments (mobile computing) | 1-meter USB cable |
| **Other (General)** | Automatic port reacquisition; COM port assignments maintained across reboots; Full hardware and software flow control; No additional IRQ or memory address requirements; Low power consumption; Rack mountable; Hot-swappable; Bulk packaging and customized cabling options | |
| **Other (Model-Specific)** | N/A | Aluminum chassis; Designed for rugged environments (emergency vehicles, restaurant kitchens); Rack mount bracket for added security |
| **Power Requirements** | | |
| **Power Supply** | USB powered | |
| **Environmental** | | |
| **Operating Temperature** | 0° C to 55° C (32° F to 131° F) | |
| **Relative Humidity** | 0% to 95% (non-condensing) | |
| **Regulatory Approvals** | | |
| **Safety** | EN60950, UL 1950, CSA 2.2 No. 950, IEC 950 | |
| **Emissions/Immunity** | CE, FCC Part 15 Class B, EN55022, EN55024 | |

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**Driver support provided by Sun.

## Measurements

| | Edgeport/1, 1i |
|---|---|
| | Length: 3.15 in (8.00 cm) |
| | Width: 1.75 in (4.40 cm) |
| | Height: 0.80 in (2.03 cm) |
| | Weight: 1.60 oz (45.36 g) |
| | **Edgeport/2m, 4m** |
| | Length: 4.30 in (10.92 cm) |
| | Width: 8.00 in (20.32 cm) |
| | Height: 1.36 in (3.45 cm) |
| | Weight: 10.00 oz (311.00 g) |
| | **Edgeport/2c, 22c** |
| | Length: 2.38 in (6.04 cm) |
| | Width: 3.94 in (10.00 cm) |
| | Height: 1.00 in (2.54 cm) |
| | Weight: 5.00 oz (141.75 g) |
| | **Edgeport/416, 416/DB-25, 8/DB-25** |
| | Length: 5.00 in (12.70 cm) |
| | Width: 17.00* in (43.118 cm) |
| | Height: 1.80 in (4.53 cm) |
| | Weight: 41.30 oz (1170.84 g) |
| | **Edgeport/4/DB-25, 8, 8s MEI** |
| | Length: 4.35 in (11.05 cm) |
| | Width: 7.20 in (18.29 cm) |
| | Height: 1.75 in (4.45 cm) |
| | Weight: 16.00 oz (453.59 g) |
| | **Edgeport/2, 2i, 4, 4s MEI, 4s MEI Isolated, 8r** |
| | Length: 4.35 in (11.05 cm) |
| | Width: 7.20 in (18.29 cm) |
| | Height: 1.03 in (2.61 cm) |
| | Weight: 10.00 oz (311.00 g) |

Server

Ethernet

* 19.0 in (48.26 cm) with optional rack mount ears

Hubport/7
Edgeport/4
Edgeport/4
Rapidport/4
Rapidport/4

Touch Screen — RS-232 Serial
Touch Pad — USB

Receipt Printer — RS-232 Serial
Video Camera — USB
Credit Card Reader — RS-232 Serial
Money Dispenser — RS-232 Serial

RS-232  USB  Edgeport®

CERTIFIED USB

Designed for
Microsoft®
Windows® XP
Windows® 2000

Microsoft®
Windows®
Embedded
Partner

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