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.

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, USB or parallel 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.
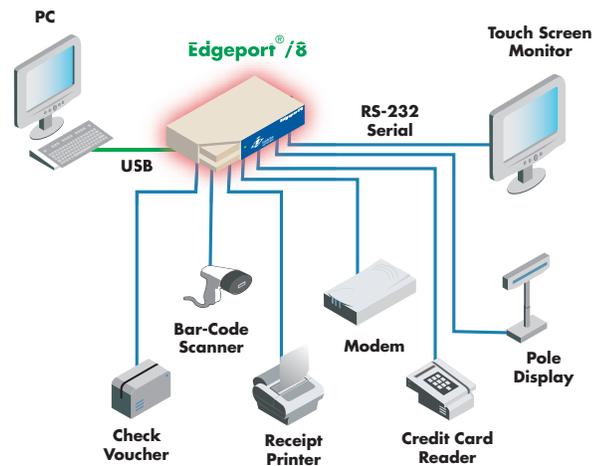
Target Applications

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

- Multi-interface, software selectable MEI, galvanic isolated, USB PlusPower, industrial, compact and metal models

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

- EdgeUSB technology makes it possible to use Digi's USB products on Windows NT and Windows NT Embedded systems

Specifications	Edgeport® Serial	Edgeport® Multi-Interface	Edgeport® Extended Safety	Edgeport® Industrial
Interfaces (Varies by Model)				
Serial Ports	1, 2, 4, 8 or 16	2	4 (separately isolated)	1, 2, 4 or 8
Serial Type	RS-232	RS-232	RS-232/422/485	RS-232, RS-422, RS-422/485, software selectable RS-232/422/485
Serial Connector	DB-9, DB-25 or RJ-45	DB-9	DB-9	DB-9
Serial Data Rate	230 Kbps per port simultaneously			
Downstream USB Ports	4	4	1 (separately isolated)	0
Other Ports	–	1 parallel printer port	–	–
Features				
USB	USB 1.0 and USB 1.1 compatible; backwards compatibility for USB 2.0; USB-IF certified; Plug and Play			
LEDs	Tri-state LED displays device status and COM port activity			
Operating Systems	Windows Vista®, Windows Server® 2008, Windows XP®, Windows® XP Embedded, Windows NT® 4.0, Windows NT Embedded, Windows CE, Windows Server® 2003, 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)	–	–	2.0 kV DC galvanic isolation on all ports	–
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			

Specifications	Edgeport® Compact	Edgeport® Metal	Edgeport® USB PlusPower
Interfaces (Varies by Model)			
Serial Ports	2	2 or 4	2
Serial Type	RS-232	RS-232	RS-232
Serial Connector	DB-9		
Serial Data Rate	230 Kbps per port simultaneously		
Downstream USB Ports	2	0	4 USB PlusPower (powered USB)
Other Ports	–	–	2 RS-232 DB-9
Features			
USB	USB 1.0 and USB 1.1 compatible; backwards compatibility for USB 2.0; USB-IF certified; Plug and Play		
LEDs	Tri-state LED displays device status and COM port activity		
Operating Systems	Windows Vista®, Windows Server® 2008, Windows XP®, Windows® XP Embedded, Windows NT® 4.0, Windows NT Embedded, Windows CE, Windows Server® 2003, 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)	–	Aluminum chassis; Designed for rugged environments (emergency vehicles, restaurant kitchens); Rack mount bracket for added security	See USB Plus Series datasheet for more information
Power Requirements			
Power Supply	USB powered		Ships with plug-mounted power supply: 120-240VAC 60/50 Hz at 24VDC@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		

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, 42+, 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, 21, 4, 4s MEI, 4s MEI Isolated, 421, 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)

*8.63 in (21.92 cm) with optional mounted power supply tray
** 19.0 in (48.26 cm) with optional rack mount ears

Server

Ethernet

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