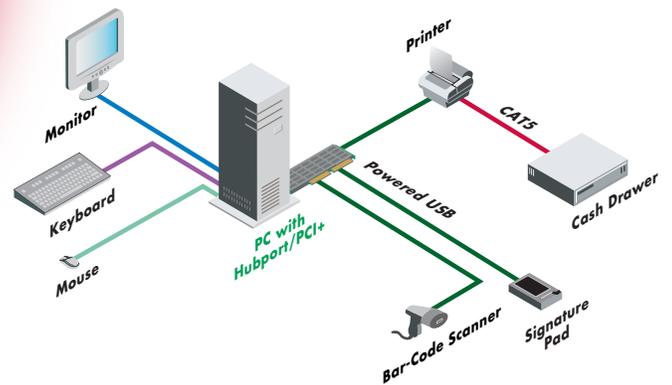


# USB Plus Series

Powered USB Solutions

Save space and simplify retail and medical system architecture by eliminating individual power supply bricks for USB peripheral devices.



## Features/Benefits

- > Eliminates individual power supply bricks for USB peripheral devices
- > Internal card and external hub solutions for easy application customization
- > Supplies power and communication signals over hot-pluggable USB cable
- > Enables a low-cost, standard PC to become a high-performance retail system
- > Cable locking mechanism ensures secure connection
- > Compatible with standard USB and powered USB peripheral devices
- > Power balancing technology provides maximum power to 12-volt and 24-volt peripherals, without exhausting the PC's five- or 12-volt power

## Overview

USB PlusPower, or powered USB, technology was developed as an alternative to externally powered USB devices. Its unique cabling allows USB devices to receive power from the PC instead of external power supply bricks, maintaining the Plug and Play end user experience typical of USB connectivity.

With the proliferation of USB peripheral devices in the retail/Point-of-Sale (POS) and medical/Point-of-Care (POC) industries, integrators face the challenge of creating elegant, yet cost-effective POS/POC systems that can handle the additional power voltage required for many USB devices like printers, signature capture devices and bar-code scanners.

The USB Plus Series makes it easy to add powered USB ports to a standard, low-cost PC, transforming a small footprint CPU into a high-performance POS/POC system. Each solution offers four powered USB ports that are compatible with both standard and powered USB devices. Hubport/4+ and Hubport/4c+ are externally powered hubs that connect to standard USB ports. Hubport/PCI+ full-size and low profile card solutions are available in both internally powered and externally powered models. For added flexibility, Edgeport/42+ also offers two RS-232 serial DB-9 ports, allowing the connection of powered USB, standard USB and legacy serial devices in a single box.

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.



Connectware™



# Features/Specifications

## FEATURES

- Compatible with standard (type A) and powered USB connectors
- Locking power connectors (external versions)
- Power balancing technology for efficient power management
- Port level power management on select models
- Plug and Play
- Convection cooled design
- Full hardware and software flow control
- Meets power switching requirements of USB 1.1 specification

### Hubport/PCI+

- Universal PCI (3.3V and 5.5V) card
- Full-sized or low-profile
- Four powered USB ports
- Two card low-profile solution
  - 3 x 12V card
  - 1 x 24V card
  - Cards may be linked or stand alone
- USB 2.0 compatible
- Baud rates to 480 Mbps
- Two power options
  - Full internal power
  - External power supply (full-size card)

### Hubport/4+, Hubport/4c+, Edgeport/42+

- External to PC
- USB to four powered USB ports
- Two RS-232 serial DB-9 ports (Edgeport/42+ only)
- USB 1.0 and 1.1 compatible; backwards compatibility for 2.0
- Baud rates to 12 Mbps
- External power supply
- 10.0 in (25.4 cm) captive cable (Hubport/4c+ only)
- Tri-state LED for device status and port activity

## DIMENSIONS

### Hubport/PCI+

- Full size PCI card

### Hubport/PCI+ Low profile

- MD2 sized low-profile PCI card
- 2.5 in x 6.6 in (63.5 cm x 16.76 cm)

### Hubport/4+

- Length: 4.35 in (11.05 cm)
- Width: 7.20 in (18.29 cm)
- Height: 1.75 in (4.45 cm)
- Weight: 10.5 oz (297.67 g)

### Hubport/4c+

- Length: 2.61 in (6.63 cm)
- Width: 3.0 in (7.62 cm)
- Height: 1.0 in (2.54 cm)
- Weight 4.2 oz (118.0 g)

### Edgeport/42+

- Length: 4.35 in (11.05 cm)
- Width: 7.20 in (18.29 cm)
- Height: 1.75 in (4.45 cm)
- Weight: 11.0 oz (311.84 g)

## ENVIRONMENTAL

- Ambient temperature: 0° C to 65° C (32° F to 149° F)
- Relative humidity: 0% to 95% (non-condensing)

## REGULATORY APPROVALS

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

## OPERATING SYSTEMS

- Windows® XP/XP Embedded
- Windows NT® 4.0/NT Embedded
- Windows CE
- Windows 2000/Me
- Windows 95/98/SE
- Windows Server™ 2003

## POWER REQUIREMENTS

### Hubport/4+, Hubport/4c+, Edgeport/42+

- Input power
  - Standard external power supply: 72 watt avg., 90 watt peak
  - 100-24V, 50/60Hz, 1.6Amp
- Output power
  - 12V: up to 30 watts
  - 24V: up to 60 watts
  - All combined: up to 72 watts

### Hubport/PCI+

- Input power
  - Optional standard external power supply: 72 watt avg., 90 watt peak
  - 100-240V, 50/60Hz, 1.6Amp
- Output power
  - 12V: up to 36 watts\*
  - 24V: up to 72 watts\*
  - All combined: up to 72 watts\*

\*With external power supply. Without external power supply, power is limited by available power from PC, up to 72 watts.

## MODEL..... PART NUMBERS

### Model

Edgeport/42+ (USB to 4-port powered USB hub; 2 serial DB-9; power supply)  
 Hubport/4+ (USB to 4-port powered USB hub; power supply)  
 Hubport/PCI+ (PCI to 4-port powered USB card; optional power supply sold separately)  
 Hubport/PCI+ (PCI to 4-port powered USB card; internally powered)  
 Hubport/PCI+ (PCI to 4-port powered USB card with external power supply)  
 Hubport/PCI+ Power Supply (Optional power supply for 301-1149-01)  
 Hubport/4c+ (Compact 4 port powered USB hub)  
 Hubport/PCI+ LP 1x24V (Low profile PCI to 24V port powered USB; internally powered)  
 Hubport/PCI+ LP 3x12V (Low profile PCI to 3 12V ports powered USB; internally powered)  
 Hubport/PCI+ LP w/PS (Low profile PCI to 24V port powered USB; w/external power supply)  
 Hubport/PCI+ LP 1 x 24V w/Cable (Low profile PCI to 24V port powered USB; w/ribbon cable to 12V card)

### North America

301-1001-42  
 301-1010-14  
 301-1149-01  
 301-1150-01  
 301-1151-01  
 301-9007-01  
 301-1157-01  
 301-1170-01  
 301-1171-01  
 301-1172-01  
 301-1173-01

### International

301-2001-42  
 301-2010-14  
 301-1149-01  
 301-1150-01  
 301-2151-01  
 301-9207-01  
 301-2157-01  
 301-1170-01  
 301-1171-01  
 301-2172-01  
 301-1173-01

## DIGI SERVICE AND SUPPORT

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