



**Model UISOHUB4 CE**  
**Protect Your PC from Hazardous  
 Ground Loops and Surges**  
*Industry's First Isolated USB Hub For Extreme Environments*

### Description

USB is intended to be a user friendly, hot plug-and-play bus for desktop applications. With the growing popularity and wide public acceptance for this protocol, USB has recently become the standard connection in the PC environment.

Devices such as data acquisition, serial, parallel, Ethernet, etc., can now be connected to USB through bridges. These bridges extend the desktop into environments not originally foreseen for USB applications. But, the added cable length and environments typical to these devices introduce conventional problems such as ground loops, spikes, and surges, which can damage the devices as well as the PC. For protection from these scenarios in commercial or industrial applications, and to increase system reliability in any harsh environment, optical isolation is strongly recommended.

**UISOHUB4** does exactly that. It is a four-port USB hub with optical isolation between the upstream port and all the downstream ports. Both high and low speed USB peripherals are supported as well as high-powered and low-powered devices. This unique hub offers all the benefits of the USB technology with added safety and protection for your PC. The attached 1m USB cable on the upstream port is ready to connect to your PC or another hub. An external power supply is required, but not included.

### Features

- Provides 2500 VAC isolation
- Electrostatic Discharge (ESD) protection on all ports
- 8 power/status indicator LED's
- 1 upstream port, attached 1m USB cable with A type plug
- 4 downstream ports, USB A type receptacles,
- Per port over-current protection and power switching

### Specification Summary

<b>Operating Systems</b>	Windows 98, 98SE, ME, 2000, or XP and Apple iMac OHCI and UHCI compliant USB host compatible Available USB port
<b>Standard Connectors</b>	Works with Universal Serial Bus Revision 1.1 Specification (1) Attached 1m USB cable with series A type plug (upstream to host or hub) (4) USB series A type receptacles (downstream to peripherals)
<b>Speed Data Modes</b>	Supports high speed (12 Mbps) and low speed (1.5 Mbps) devices Isochronous and asynchronous
<b>LEDs</b>	(1) red LED for external power status (2) yellow LED's for reset and suspend status (5) green LED's for upstream and downstream ports status
<b>Isolation</b>	2500 VAC
<b>Power Requirement</b>	15 VDC @ 1.0 A 2.1 x 5.5 x 9.5 mm jack External power supply required, not included. Power supply available from B&B.
<b>Approvals</b>	FCC Class A, CE
<b>Temperature</b>	0 to 40°C (32 to 104°F)
<b>Humidity</b>	20 to 90% relative humidity (non-condensing)
<b>Dimensions</b>	3.8 x 5.6 x 1.2 in (9.7 x 14.1 x 2.9 cm)

### Note on Use

This device may be susceptible to EFT (Electrical Fast Transient), especially around noisy and high power devices and machineries. Under normal environments, EFT should be no problem. However, in the event that it is, a simple reset procedure can be follow. To reset the unit, remove power and then apply power again.

International Headquarters:

**B&B Electronics Mfg. Co.** 707 Dayton Road P.O. Box 1040 Ottawa, IL 61350 USA  
815-433-5100 Fax 433-5104 [www.bb-elec.com](http://www.bb-elec.com) [orders@bb-elec.com](mailto:orders@bb-elec.com) [support@bb-elec.com](mailto:support@bb-elec.com)

**B&B Electronics Ltd** Westlink Commercial Park Oranmore Co. Galway Ireland  
+353 91 792444 Fax +353 91 792445 [www.bb-europe.com](http://www.bb-europe.com) [orders@bb-elec.com](mailto:orders@bb-elec.com) [support@bb-europe.com](mailto:support@bb-europe.com)

**Ordering Information**

UISOHUB4.....USB Optically Isolated 4-Port Hub

**Power Supply Options from B&B Electronics:**

USBPS .....120 VAC to 15 VDC@1.0 A Power Supply

PS-USB-EU .....220 VAC to 15 VDC@1.0 A, Euro 2-Prong, Power Supply

PS-USB-UK .....220 VAC to 15 VDC@1.0A, UK 3-Prong, Power Supply

**DECLARATION OF CONFORMITY**

Manufacturer's Name: B&B Electronics Manufacturing Company  
Manufacturer's Address: P.O. Box 1040  
707 Dayton Road  
Ottawa, IL 61350 USA  
Model Number: UISOHUB4  
Description: 4 Port Isolated USB Hub  
Type: Light industrial ITE equipment  
Application of Council Directive: 89/336/EEC  
Standards: EN 55022  
EN 61000-6-1  
EN 61000 (-4-2, -4-3, -4-4, -4-5, -4-6, -4-8, -4-11)



William H. Franklin III, Director of Engineering



International Headquarters:

**B & B Electronics Mfg. Co.** 707 Dayton Road P.O. Box 1040 Ottawa, IL 61350 USA  
815-433-5100 Fax 433-5104 [www.bb-elec.com](http://www.bb-elec.com) [orders@bb-elec.com](mailto:orders@bb-elec.com) [support@bb-elec.com](mailto:support@bb-elec.com)

**B & B Electronics Ltd** Westlink Commercial Park Oranmore Co. Galway Ireland  
+353 91 792444 Fax +353 91 792445 [www.bb-europe.com](http://www.bb-europe.com) [orders@bb-elec.com](mailto:orders@bb-elec.com) [support@bb-europe.com](mailto:support@bb-europe.com)