

USB Isolation - Strong Enough for Medical Applications



Industry: Medical
Product: USB Isolators

• The Challenge

Medical system designers who want to take advantage of USB's plug-n-play, hot swappability, and robust peripheral support must factor in isolation for safety concerns. At least two independent isolation systems are normally required. Some systems must comply with the IEC60601 standard: isolation at all interfaces and peripherals at patient points of contact.

B&B Electronics' Model UH401 provides the isolation required for most medical applications. Its compact size allows it to easily integrate with existing equipment.

• The Solution

B&B Electronics UH401 provides the isolation necessary to help certify your equipment. This compact USB isolator easily inserts directly into the USB signal lines of existing medical applications - without any additional components or software modifications.

• Why B&B Electronics?

B&B Electronics' USB expertise in design and manufacturing provides an ideal method of adding USB functionality and a simple, convenient isolation solution to existing medical systems - at market competitive, price-to-performance value.

• The Product

Ulinx™ Model UH401 – USB Isolator

- 4kV isolation
- ESD Protection - 8kV contact, 15kV
- High retention USB connectors
- Connectors: Type B-Upstream, Type A-Downstream
- Ultra compact
- Includes 1 meter, Type A to B USB cable
- Operating temperature -40 to 80°C
- USB bus powered

This tiny isolator packs a powerful punch against electrical noises, surges and spikes - protecting expensive PCs and equipment from damaging electrical storms, power surges and other high EMI/RFI disturbances. Isolation barrier eliminates disruptive ground loops in measurement applications. Up to 100mA of current to attached downstream devices. LED indicates power supplied via upstream USB port.

