

Compact USB Port Isolator

UH201

B+B SMARTWORX

Powered by

ADVANTECH

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PRODUCT FEATURES

- 2000 Volt Isolation
- ESD Protection – 4 kV Contact
- Compact, Portable USB “key style” Enclosure
- USB 2.0 – Full-Speed (12 Mbps)
- Wide Operating Temperature (-40 to 80 °C)

USB has become the standard for connecting everything from sensors to controllers and motor drives to your PC or hand held computer. But USB was not intended for use outside of the electrically clean office or home environment. This can lead to expensive problems when you need to access data from a device installed in the field or in the factory.

Any time you connect remote I/O equipment to your computer there will be a risk for electrostatic discharge (ESD), power surges, ground loops, and electromagnetic interference/radio frequency interference (EMI/RFI). Any one of these events could damage your USB port or your entire PC. Why take a chance? Protect your investment with isolation technology from B+B SmartWorx.

The compact UH201 fits easily inside your laptop case or pocket. It has male and female type A USB connectors. It connects directly to your USB port and provides protection up to 2000 Volts. Its high speed digital isolation chip electrically separates your PC from the remote I/O device while allowing full speed USB 2.0 communications at data rates up to 12 Mbps – the top of the line for isolation products.

Note: High speed, 480 Mbps USB 2.0 devices cannot be isolated with today's technology.

ORDERING INFORMATION

| MODEL NUMBER | DESCRIPTION |
|--------------|---------------------------|
| UH201 | Compact USB Port Isolator |

ACCESSORIES

| |
|--|
| USBAMB-3F - 3 ft. (0.9 m), Type A Male to Type B Male (Grey) |
| USBAMB-6F - 6 ft. (1.8 m), Type A Male to Type B Male (Grey) |

All product specifications are subject to change without notice.

UH201_1417ds

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SPECIFICATIONS

| USB INTERFACE | |
|-----------------------|---|
| Standards | USB 2.0 (at USB 1.1 speed) |
| Upstream Port | Type A Male |
| Downstream Port | Type A Female |
| Speed | 12 Mbps Note: High speed 480 Mbps not possible with existing isolation technology. |
| Isolation | 2.0 kV |
| ESD | Level 2, ± 4 kV |
| POWER | |
| Source | Bus powered |
| Downstream Power | 400 mA when connected to a high power USB port |
| MECHANICAL | |
| Dimensions | 6.8 x 3.0 x 1.7 cm (2.7 x 1.2 x 0.7 in) |
| Enclosure | IP30, plastic overmolded |
| Weight | 22.7 g (0.05 lbs) |
| MTBF | 2,624,561 hours |
| MTBF Calc. Method | MIL 217F Parts Count Reliability |
| ENVIRONMENTAL | |
| Operating Temperature | -40 to 80 °C (-40 to 176 °F) |
| Storage Temperature | -40 to 85 °C (-40 to 185 °F) |
| Operating Humidity | 0 to 95% non-condensing |

APPROVALS / CERTIFICATIONS

| | | | |
|--------|---|--------------------|------------|
| FCC/CE | 2014/30/EC - Electromagnetic Compatibility Directive | | |
| | 2011/65/EU - Reduction of Hazardous Substances Directive | | |
| | 2012/19/EU - Waste Electrical and Electronic Equipment (WEEE) | | |
| | EN61000-6-2 | (Light Industrial) | |
| | EN61000-4-2 | (ESD) | +/-4kV Air |
| | EN61000-4-3 | (RI) | 3V/m |
| | EN61000-4-4 | (EFT Burst) | 500V |
| | EN61000-4-6 | (CI) | 3 VRMS |

MECHANICAL DIAGRAM

