Compact USB Port Isolator

Model UH201





PRODUCT FEATURES

- 2000 Volts 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 cable available (sold separately)

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. USB cable sold separately.

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

ORDERING INFORMATION

MODEL NUMBER DESCRIPTION

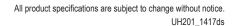
UH201 Compact USB Port Isolator

USB cable sold separately.

ACCESSORIES - sold separately

USBAMBM-3F - Type A Male to Type B Male (Grey), 0.9 m (3 ft)

USBAMBM-6F - Type A Male to Type B Male (Grey), 1.8 m (6 ft)





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SPECIFICATIONS

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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

