

Single Port, Compact USB Isolators

BB-UH401, BB-UH401-2KV



PRODUCT FEATURES

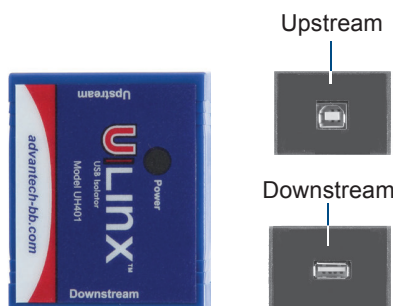
- 2 kV or 4kV Isolation Protection for PCs, Laptops, Equipment
- 15 kV ESD Protection
- Full (12 Mbps) USB Speed
- Wide Operating Temperature: -40 to +80 °C
- Ultra-Compact Size with Quick Inline Installation
- High Retention USB Connectors
- USB Bus Powered
- USB Cable Included - 0.9 m (3 ft) length

At just 4.32 x 5.08 x 2.03 cm (1.7 x 2.0 x 0.8 in), these little isolators pack a powerful punch against electrical noise, surges and spikes with 4kV isolation. Protect expensive PCs and equipment from damaging electrical storms, power surges and other high EMI/RFI disturbances. The isolation barrier also eliminates ground loops which are disruptive in measurement applications.

Always select a model compatible with your USB peripheral devices. Use full speed isolators BB-UH401 or BB-UH401-2KV with full-speed USB devices. Data rate is preconfigured at the factory.

ADDITIONAL DETAILS:

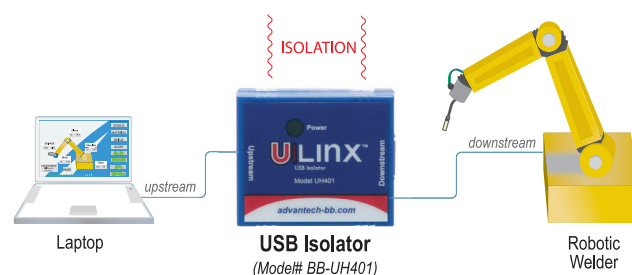
- All models are USB bus-powered and provide up to 100mA of current to attached downstream devices when they are attached to a full power (500 mA) USB host port.
- One USB cable (0.9m / 3ft) is included with each isolator. An additional cable may be required to connect the downstream device to the isolator.



ORDERING INFORMATION

MODEL NUMBER *	USB SPEED	ISOLATION
BB-UH401	Full (12 Mbps)	4 kV
BB-UH401-2KV	Full (12 Mbps)	2 kV

APPLICATION



SPECIFICATIONS

TECHNOLOGY	
Standards	USB 1.1 12 Mbps (BB-UH401 & BB-UH401-2KV) Note: These devices are transparent to the operating system, do not require software drivers, and will not be enumerated in device manager.
INTERFACE	
USB Ports	High retention USB Type B (upstream), High retention USB Type A (downstream), Minimum withdrawal force of 15 Newtons (~3.4 lbs force)
LED Indicators	Power for USB bus
POWER	
Input Voltage	Standard USB bus power (5 VDC)
Downstream Power Provided	Up to 100mA with full-power upstream connection
Isolation	BB-UH401 = 4KV BB-UH401-2KV = 2KV
ENVIRONMENTAL	
Operating Temperature	-40 to +80 °C (-40 to +176 °F)

MEANTIME BETWEEN FAILURES (MTBF)	
MTBF	1049851 hours
MTBF Calculation	MIL 217F Parts Count Reliability Prediction
MECHANICAL	
Enclosure	IP30 plastic case
Dimensions	4.32 x 5.08 x 2.03 cm (1.7 x 2.0 x 0.8 in)
APPROVALS, DIRECTIVES, STANDARDS	
FCC Class A, CISPR 32, CE, KCC (Model# BB-UH401), (R(MSIP) ID#: MSIP-REI-AAD-BB-UH401 (Model BB-UH401))	
CE – Directives	2014/30/EU – Electromagnetic Compatibility Directive 2011/65/EU – Reduction of Hazardous Substances Directive (RoHS) 2012/19/EU – Waste Electrical and Electronic Equipment Directive (WEEE)
CE – Standards	EMC: EN 55032 + AC, Class A – Information Technology Equipment EN 61000-6-4 – Generic Emissions Standard for (Heavy) Industrial Environments EN 61000-6-2 – Generic Immunity Standard for (Heavy) Industrial Environments