

# BB-UH401

## Single Port, Compact USB Isolator



### Features

- 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 length

### Specifications

#### Technology

- **Standards** USB 1.1  
12 Mbps  
Note: Device is transparent to operating system, software drivers not required, 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 (~1.54kg force)
- **LED Indicators** Power for USB bus

#### Power

- **Input Voltage** Standard USB bus power (5 V<sub>DC</sub>)
- **Downstream Power** Up to 100mA with full-power 500mA upstream connection
- **Isolation** 4KV

#### Environmental

- **Operating Temperature** -40 to +80 °C

#### Meantime Between Failures (MTBF)

- **MTBF** 1049851 hours
- **MTBF Calculation** MIL 217F Parts Count Reliability Prediction

#### Mechanical

- **Enclosure** IP30 plastic case
- **Dimensions** 43.2 x 50.8 x 20.3 mm

#### Approvals, Directives, Standards

- FCC Class A, CISPR 32, CE, KCC, MSIP ID#: MSIP-REI-AAD-BB-UH401
- **CE – Directives** 2014/30/EU – Electromagnetic Compatibility Directive  
2011/65/EU amended by 2015/863/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  
EN61000-6-2 Generic Immunity Standard for (Heavy) Industrial Environments

### Ordering Information

Model Number *	USB Speed	Isolation
BB-UH401	Full (12 Mbps)	4 kV

\* Includes (1) one USB cable, Type A male/Type B male, 0.9 m (Model# BB-USBAMB-3F)

#### Accessories – sold separately

- **BB-USBAMB-3F** USB Cable, 0.9 m, Type A Male/Type B Male (Grey) (one included)
- **BB-USBAMB-6F** USB Cable, 1.8 m, Type A Male/Type B Male (Grey)

### Dimensions

Unit: mm

