

## Medical-Grade USB Galvanic Isolator for Patient Care Vicinities - 6kV 1-Minute Insulation, IEC 60601-1, 2MOPP Certified, UL/cUL, TAA

MODEL NUMBER: U234-000-UGI



Helps protect PCs and USB peripherals from damaging electrical surges and EMI/RFI disturbances.

### Features

#### Protects Sensitive Computing Equipment and USB Peripherals in Medical Environments

The U234-000-UGI makes it easier to integrate non-medical USB devices into ME (Medical Environment) systems by creating a 6kV DC isolation barrier between the host and peripheral to reduce risk from electrical surges and EMI (electromagnetic interference)/RFI (radio frequency interference) line noise. The isolator can protect critical equipment with 6,000V isolation for up to one minute. The IP40 housing protects against solid substances of one millimeter or more.

#### Complies with IEC 60601-1 Standards for Use in Patient Care Vicinities

The U234-000-UGI complies with IEC 60601-1 and EMC/IEC 60601-1-2 safety standards for a network connection between a medical device and an Ethernet network or non-medical device (PC or laptop). Because it meets IEC 60601-1 standards, this medical isolator can be used in patient care vicinities. It is 2MOPP certified to provide a redundant layer of electric protection. It is also UL/cUL recognized (E531095) and it meets CAN/CSA-C22.2 No. 60601-1 safety standards.

#### Plug-and-Play for Immediate Use

Just connect the included USB cable's USB-B plug to the isolator's "Upstream" port, then the cable's USB-A plug to the host device. Connect the desired USB peripheral to isolator's "Downstream" USB-A port with a user-supplied cable. A blue LED will illuminate to indicate a connection has been established and the device can be used. The self-powered U234-000-UGI can provide an isolated 5V DC @ 250mA current output. **Note:** If a connected device requires more power consumption than 250mA, the connected device may not operate normally or may fail to be recognized by the host. If this occurs, an optional DC power supply (not included) must be used to provide external power for the installation. The U234-000-UGI shall only be used with a medical-grade DC power supply that meets 2MOPP, is certified and is suitable for the application.

#### TAA-Compliant for GSA Schedule Purchases

The U234-000-UGI is compliant with the Federal Trade Agreements Act (TAA), which makes it eligible for GSA (General Services Administration) Schedule and other federal procurement contracts.

## Specifications

### Highlights

- Integrates non-medical USB devices into ME systems by reducing risk of surges and line noise
- Adds 6kV DC isolation barrier and 2MOPP protection path between host and peripheral
- Meets vigorous IEC 60601-1 2MOPP standards for use in patient care vicinities
- Self-powered hub is plug-and-play and requires no external power supply
- Compliant with the Federal Trade Agreements Act (TAA) for GSA Schedule purchases

### Package Includes

- U234-000-UGI USB Galvanic Isolator
- USB-A to USB-B cable (M/M), 3 ft. (0.9 m)
- User documentation



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OVERVIEW	
UPC Code	037332288684
Device Compatibility	Computer; Laptop; Tablet
Technology	USB
Country/Region	Global
DATA	
Data Ports	(1) USB A (FEMALE); (1) USB B (FEMALE)
Data Ports Details	(1) USB-A - USB 2.0
INPUT	
Bus Powered	Yes
POWER	
USB Power Delivery (PD) Charging Support	No
CONNECTIONS	
Number of Ports	2
Side A - Connector 1	USB A (FEMALE)
Side B - Connector 1	USB B (FEMALE)
Connector Plating	Nickel
Contact Plating	Gold
CHARGING	
Compatible Devices	Chromebook; Laptop; Smartphone; Tablet
ISOLATION	
DC Isolation	6000V (UP TO 1 MINUTE)
Supply Isolated Current	USB +5V @ 250 mA (MAX); USB +5V @ 500 mA (MAX) WITH OPTIONAL MEDICAL-GRADE POWER SUPPLY THAT MEETS 2 MOPP
PHYSICAL	
Color	Gray; White
Material of Construction	ABS + PC
Total Number of Ports	2
Shipping Dimensions (hwd / in.)	1.30 x 6.14 x 4.80
Shipping Dimensions (hwd / cm)	3.30 x 15.60 x 12.19
Shipping Weight (lbs.)	0.37



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Unit Dimensions (hwd / in.)	0.940 x 2.170 x 3.500
Unit Dimensions (hwd / cm)	2.4 x 5.5 x 8.9
Unit Dimensions (hwd / mm)	24 x 55 x 89
Unit Packaging Type	Box
<b>ENVIRONMENTAL</b>	
Operating Temperature Range	32° to 104°F (0° to 40°C)
Storage Temperature Range	-13° to 185°F (-25° to 85°C)
Operating Humidity Range	10% to 90% (Non-Condensing)
Storage Humidity Range	10% to 95% (Non-Condensing)
Power Provided to Connected Device(s)	SELF-POWERED USB HUB; OPTIONAL DC 5V POWER ADAPTER
<b>FEATURES &amp; SPECIFICATIONS</b>	
USB Specification	USB 1.1 Low-Speed (1.5 Mbps); USB 2.0 Full-Speed (12 Mbps)
Ingress Protection (IP) Rating	IPX0; IP40
Driver Required	No
<b>STANDARDS &amp; COMPLIANCE</b>	
Product Certifications	2MOPP; CAN/CSA-C22.2 No. 60601-1 (Canada); EN 60601-1
Product Compliance	CE (Europe); FCC (USA); RoHS; Trade Agreements Act (TAA); UKCA
<b>WARRANTY &amp; SUPPORT</b>	
Product Warranty Period (Worldwide)	1-year limited warranty

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