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StarTech U1 USB Isolator User Guide

Contents

StarTech U1 USB Isolator

Specifications

- Product Name: 1-Port Industrial USB 2.0 Galvanic Isolator
- Product ID: U1-USB-ISOLATOR
- Isolation Level: Up to 6000V
- Port/Connector Functions:
    - 1 – USB LED
    - 2 – Aux Power LED
    - 3 – Isolated USB Device Port (Downstream)
    - 4 – USB Host Port (Upstream)
    - 5 – DC Power Port
    - 6 – DIN Rail Mounting Point
    - 7 – Guide Peg

Product Usage Instructions

Installation

1. Connect the USB-Type B side of the USB-B to USB-A Cable to the USB Host Port.
2. Connect the other end of the cable to an available USB Type-A port on the Host Computer. Note: No drivers or additional software is needed for the USB 2.0 Galvanic Isolator.
3. Connect a USB device to the Isolated USB Device Port.

DIN Rail Mounting (optional)

1. Use the Guide Peg at the bottom of the USB 2.0 Galvanic Isolator to align the DIN Rail Mounting Kit into its correct position.
2. Use a Phillips Head Screwdriver to install the self-tapping screw and secure the DIN Rail Mounting Kit.
3. Mount the USB 2.0 Galvanic Isolator by inserting the Mounting Plate onto the DIN Rail at an angle, starting from

the top then push against the DIN Rail.

Surface Mounting (optional)

1. Remove one of the protective backings from the Adhesive Strip.
2. Attach the Adhesive Strip to the back of the USB 2.0 Galvanic Isolator by applying light pressure for a few seconds.
3. Remove the remaining protective backing from the Adhesive Strip.
4. Firmly attach the USB 2.0 Galvanic Isolator to a clean flat surface.
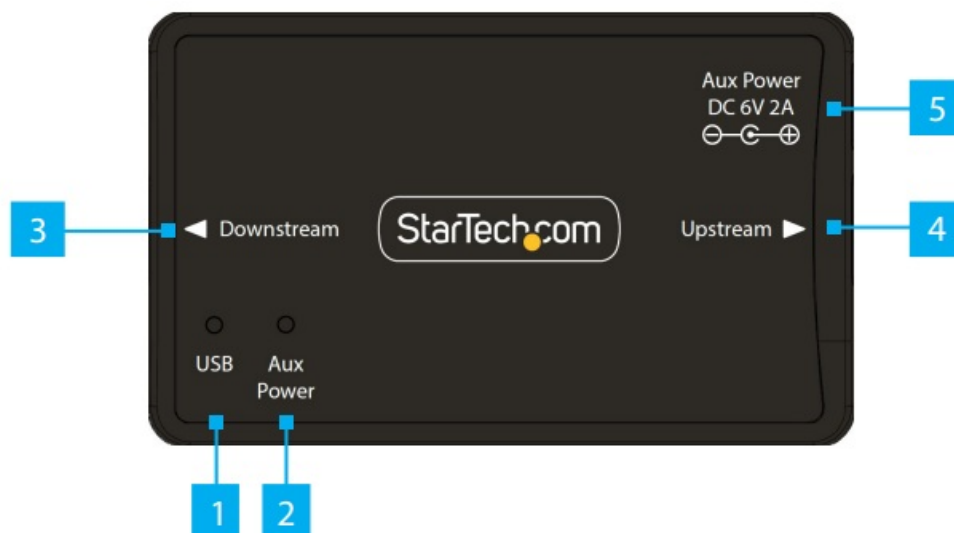
FAQ

- **Where can I find the latest manuals, product information, and technical specifications?**
    - You can visit www.StarTech.com/U1-USB-ISOLATOR for the most up-to-date information and resources.
- **Do I need any additional drivers or software for the USB 2.0 Galvanic Isolator?**
    - No, no drivers or additional software are required for the USB 2.0 Galvanic Isolator.
- **What is the isolation level of this product?**
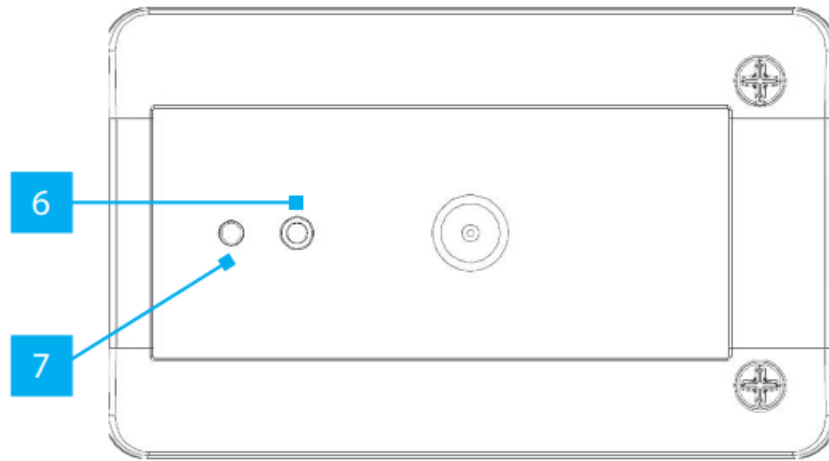   - The isolation level of this product is up to 6000V.

Product Overview

Product ID

U1-USB-ISOLATOR

Top View

Bottom View

Function

	Port/Connector	Function
1	USB LED	• Solid Blue: Indicates there's a **USB Device** connected to the **Isolated USB Device Port** *Note: The Host Computer must detect the connected USB Device before the LED turns on.* • Off: No **USB Device** connected on the **Isolated USB Device Port**
2	Aux Power LED	• Solid Green: External power is being supplied • Off: No external power is being supplied
3	Isolated USB Device Port (Downstream)	• USB Type-A port. Provide up to 250mA output when not using the optional power adapter • USB 2.0 compliant • Supports 1.5Mbps and 12Mbps only
4	USB Host Port (Upstream)	• USB Type-B port • Connect to the **Host Computer** using the supplied **USB-B to USB-A Cable**
5	DC Power Port	• (Optional) If the **Isolated USB Device** requires more than 250mA and less or equal than 500mA, an external **Power Supply** (not included) is required • 6V DC 2A Power Adapter Recommended • Type M barrel plug: Ø 5.5×2.1×9.5mm. Center tip positive
6	DIN Rail Mounting Point	• Use to secure the included **DIN Rail Mounting Kit**
7	Guide Peg	• Helps to install the **DIN Rail Mounting Kit** so it can be installed only in one way

Package Contents

- USB Isolator x 1
- 3ft (0.9m) USB-B to USB-A Cable x 1
- Adhesive Strip x 1
- DIN Rail Mounting Kit x 1
- Quick-Start Guide x 1

Requirements

For the latest manuals, product information, technical specifications, and declarations of conformance, please visit: www.StarTech.com/U1-USB-ISOLATOR

- Phillips head screwdriver
- Available USB-Type A port on the Host Computer
- (Optional) 6V DC Power Supply with Type M Barrel Plug

Installation

1. Connect the USB-Type B side of the USB-B to the USB-A Cable to the USB Host Port. Connect the other end of the cable to an available USB Type-A port on the Host Computer.
   Note: No drivers or additional software is needed for the USB 2.0 Galvanic Isolator.
2. Connect a USB device to the Isolated USB Device Port.

DIN Rail Mounting (optional)

1. Use the Guide Peg at the bottom of the USB 2.0 Galvanic Isolator to align the DIN Rail Mounting Kit into is correct position. Use a Phillips Head Screwdriver to install the self-tapping screw and secure the DIN Rail Mounting Kit. (Figure 1)
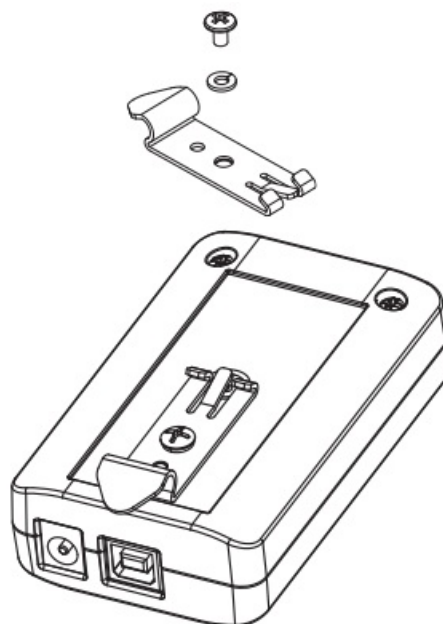

Figure 1

2. Mount the USB 2.0 Galvanic Isolator by inserting the Mounting Plate onto the DIN Rail at an angle, starting from the top then push against the DIN Rail. (Figure 2)
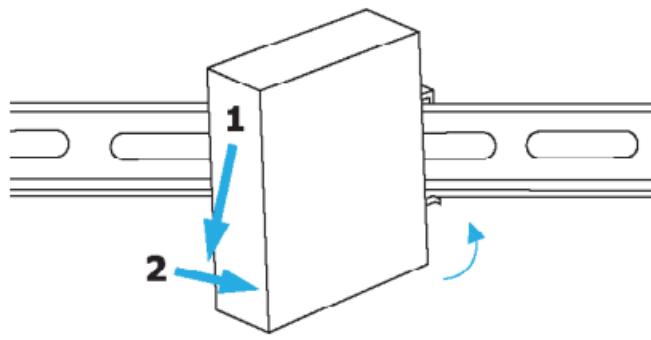
Figure 2

Surface Mounting (optional)

1. Remove one of the protective backings from the Adhesive Strip.
2. Attach the Adhesive Strip to the back of the USB 2.0 Galvanic Isolator by applying \light pressure for a few seconds.
3. Remove the remaining protective backing from the Adhesive Strip.
4. Firmly attach the USB 2.0 Galvanic Isolator to a clean flat surface.

FCC Statement

Regulatory Compliance

FCC Compliance Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment to an outlet on a different circuit than the receiver.
- Consult the dealer or an experienced radio/TV technician for help.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the device. If shielded interface cables are included with the product, or if additional components or accessories are designated for use with the installation, they must be used to ensure compliance with FCC regulations.

ISED Statement

CAN ICES-003(B) / NMB-003(B)

This Class B digital apparatus complies with Canadian ICES-003.

This device complies with ISED Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

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Warranty Information

This product is backed by a two-year warranty. For further information on product warranty terms and conditions, please refer to **www.startech.com/warranty**.

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Documents / Resources

	StarTech U1 USB Isolator [pdf] User Guide U1 USB Isolator, U1, USB Isolator, Isolator

References

- **User Manual**