USB-ISO-HS

User Manual
olimex.com

Rev.1.0 October 2024

Table of Contents

What is USB-ISO-HS

USB-ISO-HS is High-Speed isolator and provides galvanic isolation between the USB host and device and protects the device from power shocks and avoid ground loops that can be very troublesome in audio.

It supports USB transfer modes Low (1.5Mbps), Full (12Mbps) and Hi-speed (480Mbps).

Hi-Speed 480Mbps are required by DACs that support higher than 96kHz/24bit sample rates, and also multi channel DACs.

High speed 480Mbps and also used by high speed JTAG adapters and Digital Storage Oscilloscopes.

USB-ISO-HS can provide up to 350mA to the USB device.If you need more you can apply external power supply to the PWR jack, note that your power supply will be connected directly to your USB device, so it should be galvano isolated also!!! In most of the cases you do not need to apply external power as 350mA are enough.

USB-ISO-HS features:

- USB 1.1, USB 2.0, USB3.0, USB3.1 compliant

- USB-C device input

- USB-A host outputs

- PWR jack for external power supply if needed

- Signal isolation: 1000VDC

- Voltage isolation: 1000VDC

- Industrial grade -40+85C

- Dimensions are: 45 x 40 x 20

Power supply:

USB-ISO-HS can take power from two sources:

- External power jack – 8V to 15 V DC, in this case maximum current available depend on the maximum current which your external power supply can provide, up to 750 mA

- USB_DEVICE connector – 5V, in this case maximum current available depend on the maximum current which PC USB host can provide, up to 350 mA

Order codes for USB-ISO-HS

USB-ISO-HS   industrial grade -40+85C USB isolator

USB-CABLE-A-TO-C-1M   USB-C cable

Revision History

Revision 1.0 October 2024