



Q: What can this isolator do for me?

A: You can use this isolator for all applications where requires a clean, stable and safe USB connections with isolated ground for both power and data transferring, in high level it could be one of the following application categories:

- Industrial equipments: PLC controller, protocol adapter(RS232, RS485/422, CAN, etc), industrial PC
- Testing instruments: Analog/Digital IO, data logger, MCU programmer/debugger, etc
- Hi-fi audio systems: audio DAC, USB mixer, receiver, streamer, broadcast/studio, etc

Q: How does the USB Isolator get rid of my buzz noise?

A: First of all, this isolator is not able to get rid of ALL types of buzz noise, however most of the buzz noise can be blamed on the noise introduced by ground loops which is where this isolator come in play. What this isolator does is to completely isolate both data and power lines which results significant sound quality improvement by breaking all the noise coming from the host computer.

Q: Sometimes it stops working after peripheral device woke up from sleep?

A: If peripheral device is not answering (e.g., when a self-powered device is turned off to save power), host device will give up and post “Device not recognized” message. To get attention from the host, we need to generate bus event such as disconnecting the peripheral and connect it back again.

Q: Do I need to install a driver for this isolator?

A: The isolator has “built-in” protocol to handle USB communication. It is “transparent” in between host device (e.g., computer) and peripheral device (e.g., Audio DAC), same as USB port, it is “plug-and play”.

Q: How do I know my device work with this isolator or not?

A: For sure it doesn’t work with all the USB devices, two main things need to check on your devices prior to the purchase: current consumption and USB speed. The isolator can only handle certain level of output current (power), your device will not work if it requires a current level higher than what isolator can provide (EZSync3101-300mA, EZSync3102-180mA). The USB speed of your device has to match with speed of the isolator so they can talk. Specifically, EZSync3101 can handle both full speed (USB2.0, 12Mbps) and low speed (USB1.1, 1.5Mbps), EZSync3102 can only handle full speed (USB2.0, 12Mbps).None of them can handle high speed (USB2.0, 480Mbps)



Q: How do I know the speed of my device?

A: If you could not find the information from user manual or datasheet, most likely it is a USB2.0 full speed device. Not many devices out there on the market are low speed (e.g., wired mouse, keyboard, scanner) or high speed (class 2 audio DAC more than 96KHz/24bits).

Q: Is there a way to use this isolator with my low speed device or high power device or both?

A: Not most people preferred but there is a way, you can plug in a hub in between the isolator and your low speed device. The hub usually is downward compatible meaning they can handle both low speed and full speed. It also acts as a power buffer between your device and isolator. You might have to use a battery pack instead an AC adapter to power the hub in this case because the adapter will share the same ground with your PC.

Q: How do you compare this isolator to other "high end" isolator solutions?

A: The isolator is designed with the award winning ADuM3160/4160 isolator chip which is based on ADI's iCoupler® technology. It may not the one has the highest power or data speed, but it is sufficient for most of the commercial or even industrial applications and gives you the best price to performance ratio.