



# AXSGTR® | Axess Electronics™

## User Manual

### COMPATT/X™ ISOPLUS™

The COMPATT/X™ IsoPlus™ is a multi-purpose passive device. Use it as a splitter for 2 or more amps, a ground loop hum and noise eliminator, a signal phase inverter, or as a balanced to unbalanced guitar audio receiver and converter.

Connect the IsoPlus™ to amplifiers with short standard ¼" TS (tip-sleeve) instrument cables. Feed its INPUT with the long cable run from a pedalboard, with the last device in its signal chain being (ideally) either the Compatt/X™ Unity+™ or Compatt/O™ Buffer, or an always on pedal (for consistently driving the IsoPlus™).

For extra long (up to 330ft./100m) cable runs between a pedalboard and a backline amp, with greater noise immunity, use a ¼" TRS (tip-ring-sleeve) balanced cable between the Unity+ and IsoPlus™.

For splitting to multiple amps, just use more of them, one IsoPlus™ for each amp. Use standard ¼" TS patch cables from the SPLIT of one to the INPUT of the next, and connect the XFMR output jack to the input of each amp using standard ¼" TS instrument cables. Repeat the daisy-chain for more amps. The unused SPLIT of the final IsoPlus™ in the daisy-chain can feed the input of one more amp.

The total number of IsoPlus' that can be daisy chained together for splitting to multiple amps depends on various factors, but a minimum of 2 to 4 (for 3 to 5 amps) is conceivable.

## I/O DESCRIPTION

**INPUT** is a ¼" TRS (tip-ring-sleeve) jack that accepts either a balanced or an unbalanced buffered instrument level guitar signal.

For balanced input signals, use a shielded ¼" TRS (tip-ring-sleeve) balanced cable, up to 330ft./100m long.

For unbalanced input signals, use a standard ¼" TS (tip-sleeve) instrument cable and always aim for the best quality and shortest length possible — this will minimize the signal's susceptibility to noise and interference.

**SPLIT** is a ¼" TS (tip-sleeve) output jack that is NOT isolated from the INPUT jack. It provides an unbalanced signal and is meant to be connected to the input of an amplifier, effect pedal, loop switcher, patch-box or another IsoPlus™ via standard ¼" TS instrument or patch cable.

**XFMR** is a ¼" TRS (tip-ring-sleeve) output jack that IS transformer isolated from the INPUT and SPLIT jacks when the GRND push-button is in the "OUT" (LIFT) position.

It provides an unbalanced signal that's meant to be connected to the input of an amp, effect pedal, loop switcher, patch-box, or patch-panel via standard ¼" TS instrument cable.

It can also provide a transformer isolated and balanced signal, from an un/balanced input signal source such as from an amp simulator pedal, for connection to a DAW, FOH console or even another IsoPlus™, via ¼" TRS balanced cable.

**GRND** push-button safely lifts (and electrically isolates) the ground of the XFMR output jack, eliminating a ground loop and its resulting hum and noise.

*When this button is in the "IN" position, the ground is connected, and when it's in the "OUT" position, the ground connection is LIFTed. Try both positions and use the setting which results in the least amount of hum and noise.*

**PHASE** push-button inverts the phase of the XFMR output jack signal in relation to the INPUT and SPLIT jack signals.

*When this button is in the "IN" position, the signals are in-phase (0deg), and when it's in the "OUT" position, the signals are phase inverted or reversed (180deg). With a single amp, it's best to leave this button set to the "IN" position. Running multiple amps at once can sometimes lead to a phase cancellation problem, which results in a sound that can be described as hollow, thin, not as loud, lacking low end or fullness... The best way to test and fix this is to try and set the amps to the same volume level, individually. Then activate the amps simultaneously, and listen with this button in both positions — the best, correct button position will result in a sound that can be described as fuller or slightly louder.*

**INTERNAL DIP SWITCHES** are for alternate grounding of the INPUT jack. Change the DIP switch settings only under the guidance and support of AXSGTR® in the rare chance that the GRND button doesn't resolve a hum/noise issue.

INPUT	GRND	LIFT
SETTING	1	2
DEFAULT	OFF	ON
G/L.OPT2	ON	OFF
BAL.OPT2	OFF	OFF

**⚠ ATTENTION ⚠** Any device that contains an audio isolation transformer is susceptible to the magnetic field generated by a power transformer, such as those found in a guitar amplifier, effect processor, "wall-wart" power adapter or some universal pedalboard power supplies. Even with adequate shielding of the audio transformer and the device itself, there can still be a potential for unexpected hum. So if an unusual hum does occur, which can't be eliminated by either position of the GRND push-button, try re-locating or re-positioning the IsoPlus™. Typically it would only require being rotated and/or moved a short distance in a particular direction to resolve this type of unexpected and unwanted hum.

## SPECIFICATIONS

Dimensions (LxWxH): 3.72x1.55x1.29inch  
94.5x39.4x32.8mm

Specifications subject to change without notice.

## CONNECTION DIAGRAMS

Click the links below (to our site) for hi-res PDF diagrams of the IsoPlus™ in action.

[2-Amp Splitter](#)

[Modular Multi-Amp Splitter](#)

[Balanced Extra-Long Cable Run \(Mono\)](#)

[Balanced Extra-Long Cable Run \(Stereo\)](#)

[Amp Ground-Loop Eliminator/Phase Inverter](#)

[Wireless Converter/Ground-Loop Eliminator](#)

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