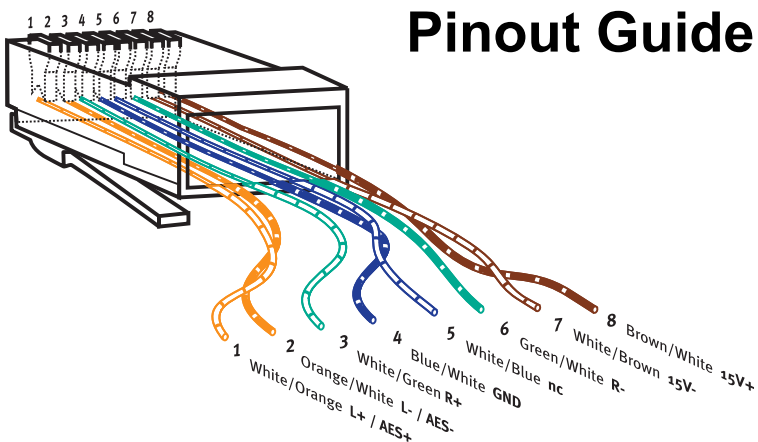


StudioHub+ Pinout Guide



StudioHub+ Pinout

Channel	Color Pair	RJ-45 Pins	110 Pins	Ethernet
L+ / AES+	Wht/Org	1	3	TR+
L- / AES-	Org/Wht	2	4	TR-
R+	Wht/Grn	3	5	R+
R-	Grn/Wht	6	6	R-
nc	Wht/Blu	5	1	n/c
GND	Blu/Wht	4	2	n/c
15V-	Wht/Brn	7	7	n/c
15V+	Brn/Wht	8	8	n/c
Shield	Wht/Sl't	Shield	9	x
Shield	Sl't/Wht	Shield	10	x

StudioHub+ Adapter Pinout Guide

LEFT

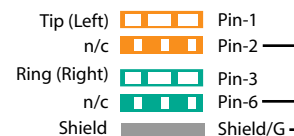
RIGHT

	Balanced	
XLR ADAPT-XLRM ADAPT-XLRF	Balanced Pin-3 2- Positive Pin-6 3- Negative Shield 1- Ground	XLR ADAPT-XLRM ADAPT-XLRF
TRS - 1/4" or 1/8" ADAPT-TRS ADAPT-MINI	Pin-3 Tip/+ Pin-6 Ring/- Shield Ground	TRS - 1/4" or 1/8" ADAPT-TRS ADAPT-MINI
RJ-45 Male ADAPT-PIGTAIL	Pin-3 2- Positive Pin-6 3- Negative Shield 1- Ground	RJ-45 Male ADAPT-PIGTAIL
RCA or Phono ADAPT-RCA	Unbalanced Pin-3 Positive Pin-6 Shield/G	RCA or Phono ADAPT-RCA

Stereo TRS - 1/8"



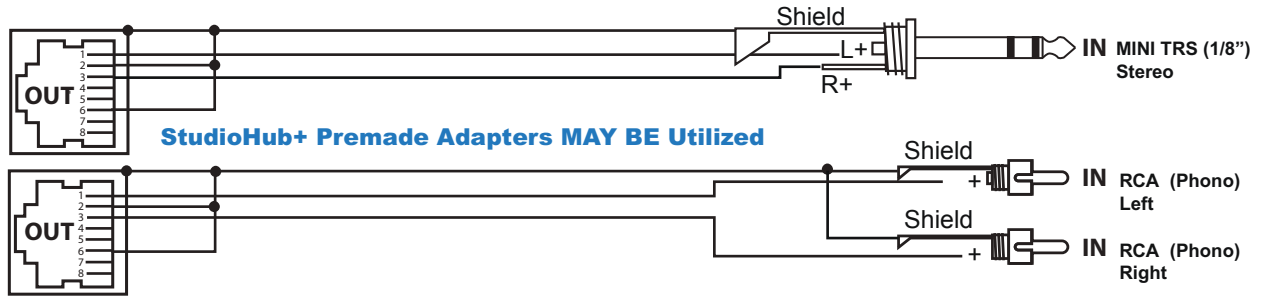
ADAPT-MINIUNBAL



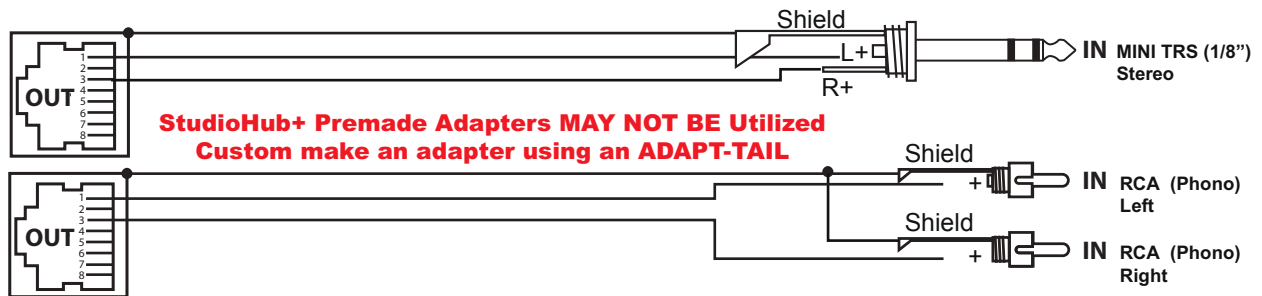
Connecting StudioHub+ inputs and outputs to non-balanced devices

When possible, use MatchJack balancing amplifiers, or proceed as follows:

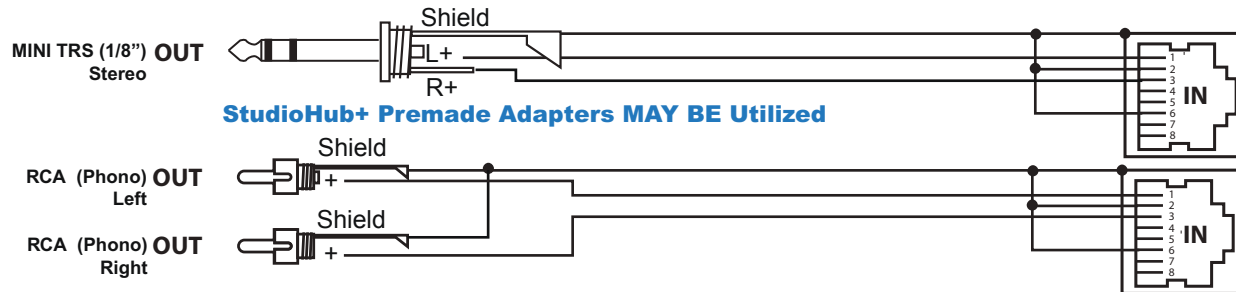
Type 1 - Electronic Balanced Floating or Transformer Floating Output to Unbalanced Input



Type 2 - Electronic Balanced Non-Floating Output to Unbalanced Input



Type 3 - Unbalanced Output to Balanced Input



Connecting balanced outputs to an unbalanced inputs (DESTINATIONS)

Determine the type of circuit of your device before choosing your connection configuration

Electronic balanced floating type - SEE TYPE 1 This is the topology of the differential instrumentation chips such as made by Texas Instruments, Analog Devices & THAT Corp. This is also the output topology used in most StudioHub+ products. Connect the "-" output pin to ground (shield) as shown. The output level will not change, but the headroom will decrease by 6dB.

Transformer balanced floating type -SEE TYPE 1 this is the topology of the standard transformer (non electronic) balanced outputs. This technology is found on legacy gear and some very high end new equipment. Connect the "-" output pin to ground (shield) as shown. The output level will not change, and the headroom will not change.

Electronic balanced non floating type - SEE TYPE 2 this is the topology of the more typical "5532" type op-amp chip. This is also the output topology used in the Radio Systems DA4x4a, Millenium A Console, etc. **DO NOT** connect the "-" output pin to ground (shield) as shown. The output will be reduced by 6dB but the headroom will not change.

Connecting unbalanced output signals to balanced inputs (SOURCES)

SEE TYPE 3 - Connect the "-" output pin to ground (shield) as shown.

StudioHub+ Premade Adapters

These premade adapters connect the negative lead to shield. Use only for connection Types 1 & 3 above.



Part #: ADAPT-MINIUNBAL Part #: ADAPT-RCAM