

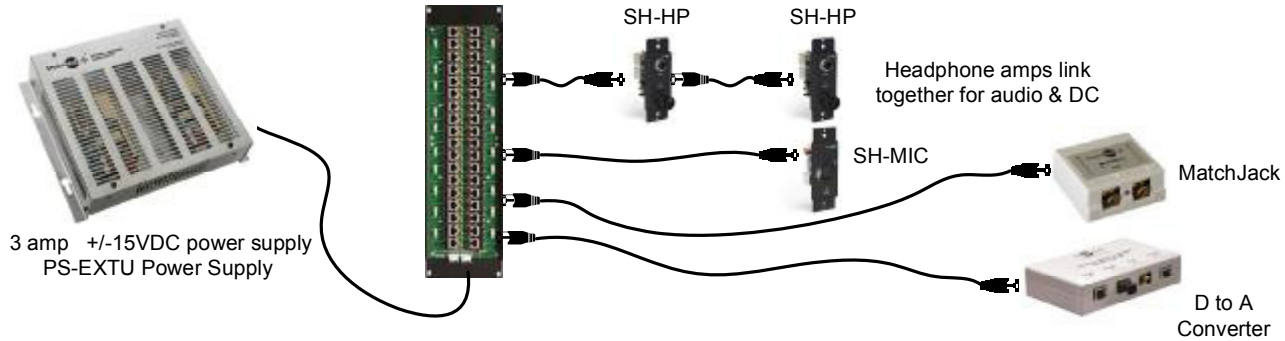
How to Power StudioHub+

Many StudioHub+ devices are active and are powered by +/- 15vDC. Power can be supplied via the StudioHub+ "DC-Link" system that uses CAT-5 pair #4 (White/Brown) for power, or power can be supplied via a separate "wall-wart" or desk-top power supply.

See Current Consumption chart to determine how many devices can be powered with different systems.

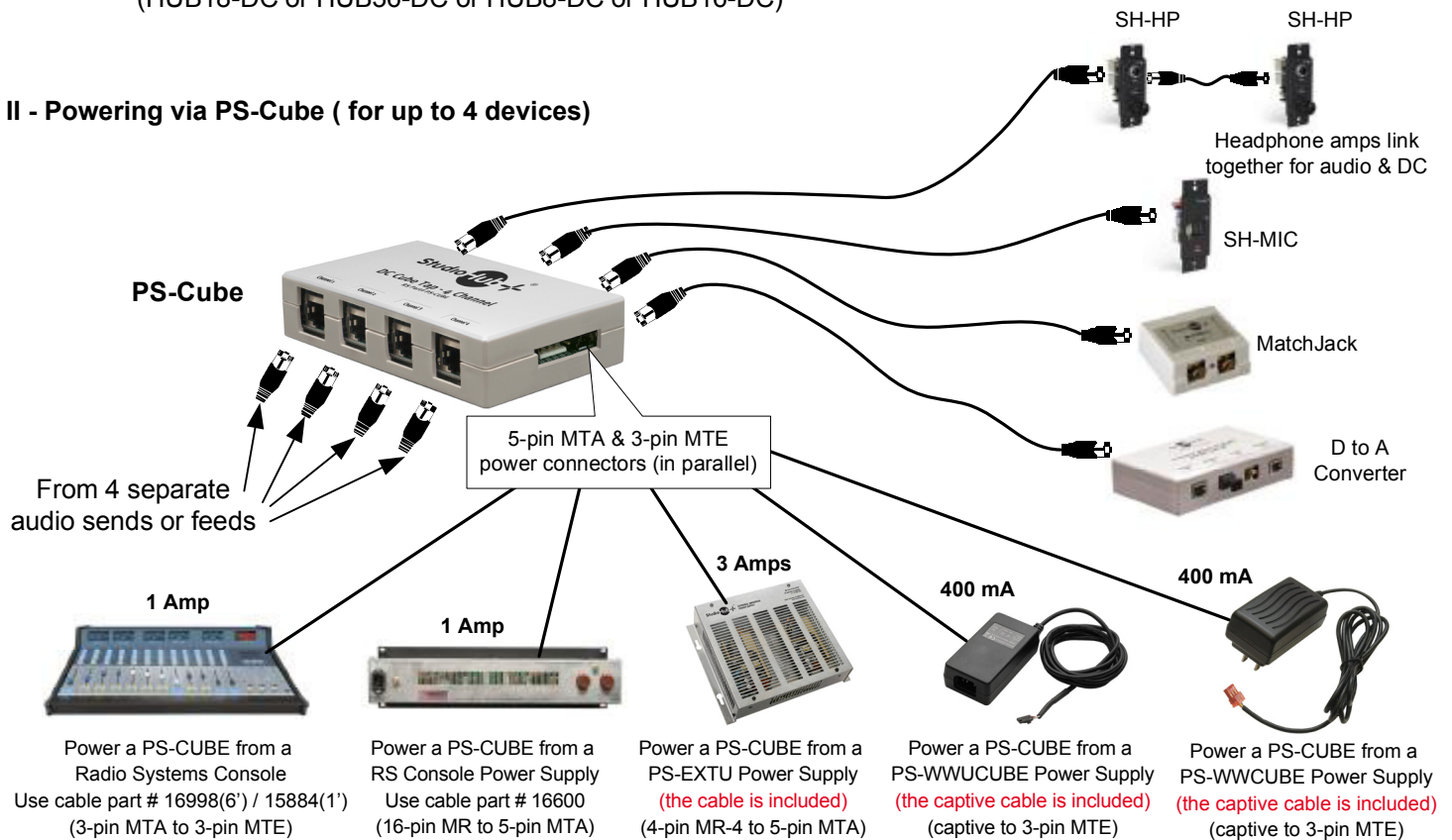
NOTE – As of September, 2010 - all power supplies show are Universal Voltage Switching Supplies and accept from 90 to 250VAC input.

I- Powering via Hub (for up to 16 devices)

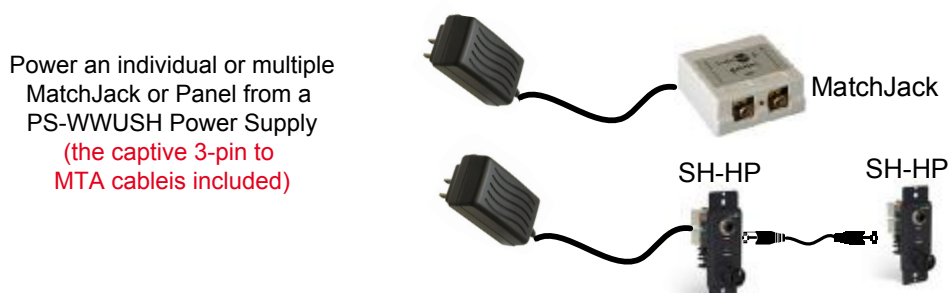


Use any Hub in which the model number ends in "DC"
(HUB18-DC or HUB36-DC or HUB8-DC or HUB16-DC)

II - Powering via PS-Cube (for up to 4 devices)



III- Powering via "Wall Wart" or Desk-Top Power Supply



NOTE- all power supplies shown are Universal Voltage switching supplies and accept from 100 to 240VAC input power.

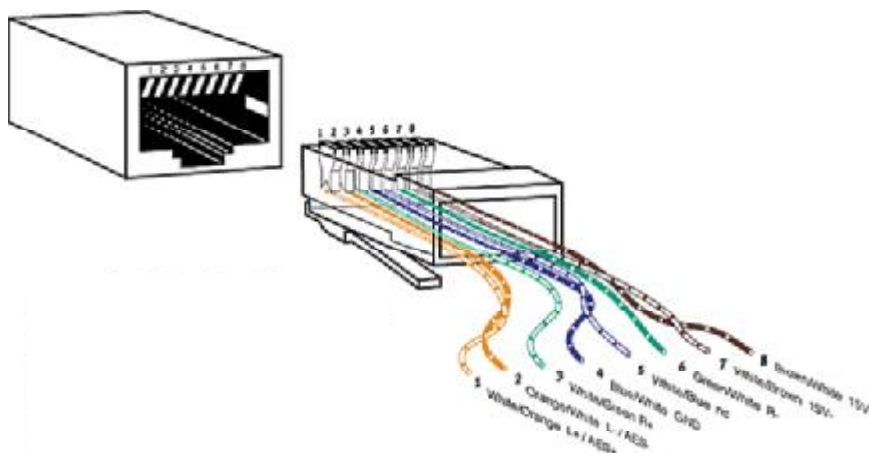
NOTE- If removeable IEC power cord is required, order Part # PS-EXPORT

Headphone amps link together for audio & DC.
Power up to 5 headphone amps from one PS-WWUSH.

Current consumption for each StudioHub+ active device is charted below. Refer to this list when calculating the total number of devices that can be run on any individual power supply

Part #	Description	Current
MJ-OUT	Analog MatchJack Out (IHF to Pro)	75ma
MJ-IN	Analog MatchJack In (Pro to IHF)	35ma
MJ-SPDIF	MatchJack In (S/PDIF and Optical to AES)	100ma
MJ-AD	Digital MatchJack A to D	150ma
MJ-DA	Digital MatchJack D to A	150ma
MJ-DDA	Digital MatchJack Distribution Amplifier	165ma*
SH-DUALMATCH	Dual Match Panel	100ma
SH-HPB	Headphone Panel	50ma
SH-HPDUAL	Dual Headphone Panel	100ma
SH-MATCHPANEL	Dual MatchJack IN/OUT Panel	100ma
SH-MIC	Mic Pre-Amp Panel	55ma
SH-MIXER	3 Input Stereo Mixer with mix-minus	125ma
SH-AMPSPKR	Monitor Amp Panel (w/ Speaker)	1400ma
SH-LEVEL	Monitor Panel	145ma
SH-VUV	Dual VU Meter Panel	150ma
SH-LCDV	LCD Display Panel	75ma
DA6-DC	DA Hub (Single)	575ma
SUM4-DC	Combiner Hub (Single)	175ma

* Powered via 9v DC (single ended) wall wart or +15VDC StudioHub+ "DC-Link" power

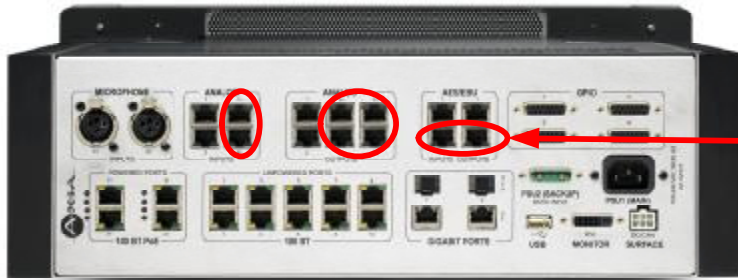


StudioHub+ Pinout Chart

Channel	Color Pair	RJ-45 Pin	110 Pin
L+ / AES +	Wht/Org	1	3
L- / AES -	Org/Wht	2	4
R+	Wht/Grn	3	5
R-	Grn/Wht	6	6
nc	Wht/Blu	5	1
GND	Blu/Wht	4	2
15V-	Wht/Brn	7	7
15V+	Brn/Wht	8	8
Shield	Wht/Slr	Shield	9
Shield	Slr/Wht	Shield	10

StudioHub+ - Technical Bulletin

Issues with connecting Powered StudioHub+ products to Axia “PowerStation” Audio Engines



Note that the inputs and outputs circled in red tie RJ-45 pins 7&8 together and may not be connected directly to a powered StudioHub+ device.

Issue;

Some Axia PowerStation RJ-45 ANALOG and DIGITAL Input and Output ports (indicated with a “+” sign by the connector) are not compatible with StudioHub+ active (powered) components because pins 7&8 are tied together in preparation of a future powering system. Plugging a powered StudioHub+ device into one of these ports will cause the supply to shut down and potentially damage the supply and/or device.

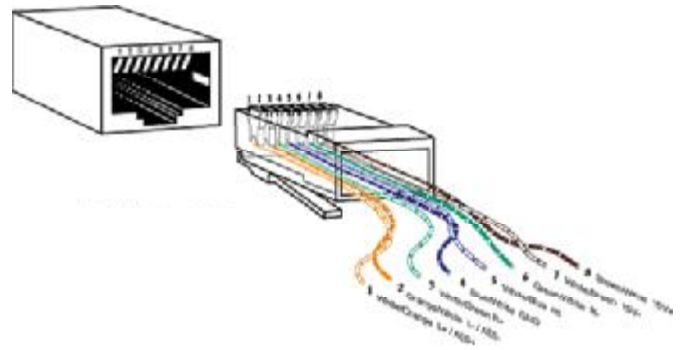


I – Solution #1

Connect the active StudioHub+ device only to non “+” ports on the Axia PowerStation engine (ANALOG Inputs and Outputs 1 or 2 / DIGITAL Inputs and Outputs 1)

II – Solution #2

Prepare and utilize a special CAT-5 cable with no connection made between pins 7&8 (the brown/white pair) and plug this cable between the PowerStation engine and the active StudioHub+ device.



III – Solution #3

Insert a StudioHub+ “Power-Cube” in-line and power the active StudioHub+ device via the power cube. DC power on the “Input” side of the cube will be isolated from the Axia PowerStation. The cube will support up to four separate audio Inputs or Outputs. In addition, devices utilizing common audio can be looped together via CAT-5 in/out connectors as audio and power will pass between these units.

