StudioHub+ Four Studio Switcher

Product Key	
Name	Four Studio Switcher Controller
Mount	Rack (3 R.U.)
Channels	4
CAT-5 Pairs	(audio wires use 2-pair) (control wires use 4-pair)
Power Link	yes
Connectors	RJ-45 & Mini Barrier
Versions	Rack Mount

General
The StudioHub+ Four Studio Switcher provides automated selection of up to 4 stereo audio inputs routed to 1 stereo audio output.

Operation
Once selected, a studio indicates ON, on all buttons. In the studio selected, the ON button is pushed to arm studio switching from any other studio. The studio lamp selected flashes to indicate that the arm mode is active for 15, 30, 45, or 60 secs (jumper selectable).

In the event of power failure, the unit automatically returns to either the last studio selected prior to the power failure, or to studio 1 (jumper selectable).

Wiring
Connect up to 4 stereo inputs and 1 stereo output to RJ-45 connectors J2 thru J6. Connectors follow the Studiohub+ pin-out configuration (see below).

Control wiring is also accomplished via RJ-45 patch cords to pre-connectorized 2-button switch panels. Panels must be plugged into their indicated RJ-45 connector for each designated studio. Local panel connectors J8 & J10 are provided for override control at the switcher.

Remote Control
Studio selection may be remote controlled by connecting the select 1-4 remote control pins to ground momentarily. A pull-to-ground indication of which studio is selected is available on pins 7-10 of the remote control connector.

Grounding Information
All RJ-45 shields are connected in parallel. This common shield line may be connected to chassis ground (jumper enabled).
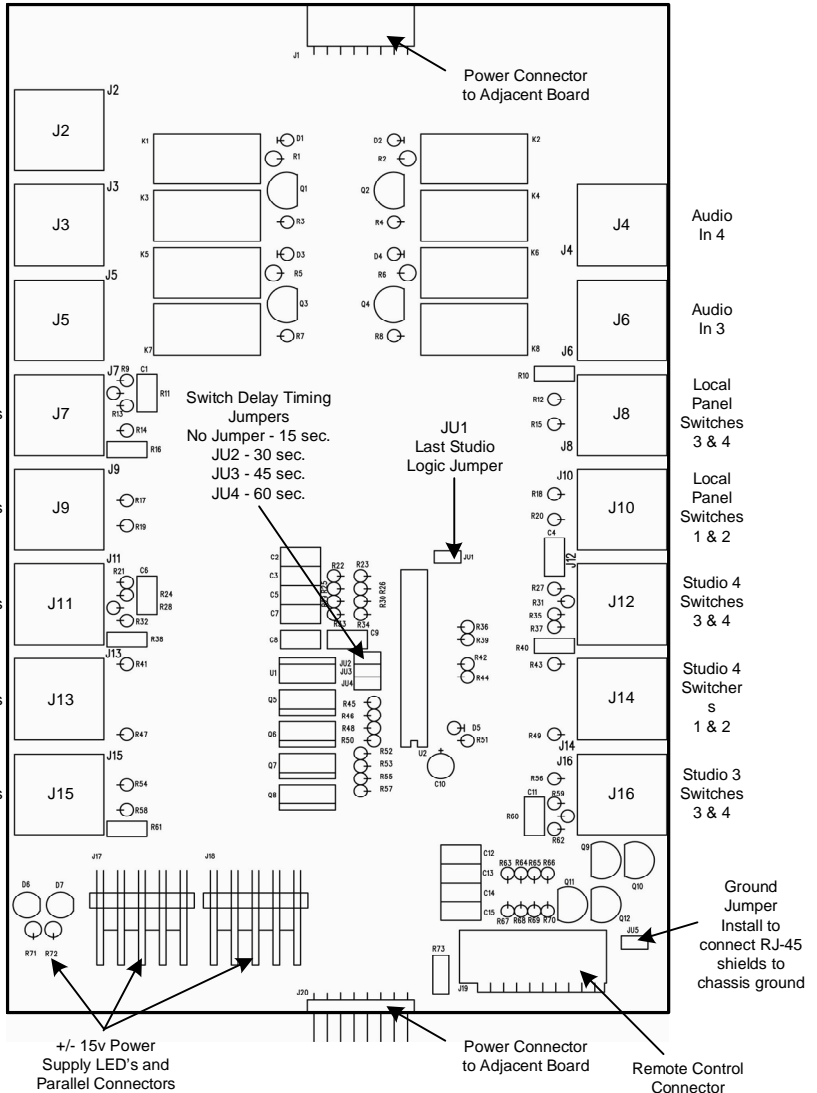
Switch Delay Timing Jumpers
To program release time for studio switch-over, allow (lamp flash time).
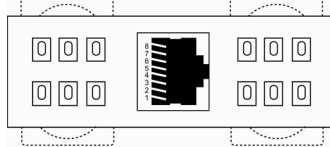
Install
No Jumper	15 sec.
JU2	30 sec.
JU3	45 sec.
JU4	60 sec.

"Last Studio" Power Failure Restore Jumper
To program which studio is selected on power restore, after a power failure, install JU1 to restore to last studio selected, and install no jumper to restore to studio 1.

Power Connector to Adjacent Board

Audio Out — J2
Audio In 1 — J3
Audio In 2 — J5
Studio 1 Switches 1 & 2 — J7
Studio 1 Switches 3 & 4 — J9
Studio 2 Switches 1 & 2 — J11
Studio 2 Switches 3 & 4 — J13
Studio 3 Switches 1 & 2 — J15

Audio In 4 — J4
Audio In 3 — J6
Local Panel Switches 3 & 4 — J8
Local Panel Switches 1 & 2 — J10
Studio 4 Switches 3 & 4 — J12
Studio 4 Switchers 1 & 2 — J14
Studio 3 Switches 3 & 4 — J16

Switch Delay Timing Jumpers
No Jumper - 15 sec.
JU2 - 30 sec.
JU3 - 45 sec.
JU4 - 60 sec.

JU1 Last Studio Logic Jumper

Ground Jumper Install to connect RJ-45 shields to chassis ground

+/- 15v Power Supply LED's and Parallel Connectors

Power Connector to Adjacent Board

Remote Control Connector
Pin 1 - +15v
Pin 2 - Gnd
Pin 3 - Select 1
Pin 4 - Select 2
Pin 5 - Select 3
Pin 6 - Select 4
Pin 7 - 1 Selected
Pin 8 - 2 Selected
Pin 9 - 3 Selected
Pin 10 - 4 Selected

2 Button Switch Layout (rear)

2 Button RJ-45 Switch Pinout
8	Lamp Common Switch
7	Lamp Switch 2
6	N.C. Contact Switch 2
5	Switch Common
4	N.O. Contact Switch 2
3	Lamp Contact Switch 1
2	N.C. Contact Switch 1
1	N.O. Contact Switch 1

Note:
In a 2-studio configuration, 3 2-button switch panels are required (one in each studio, and one for local control above the switcher)

In a 4-studio configuration, 10 2-button switch panels are required (two in each studio, and two for local control above the switcher)