

For Assy:  
TIE24-4,  
TIE12-4  
Rev: 11/04

# StudioHub+ Model TIE24-4 & Model TIE12-4

Engineered for Inter-Studio Tie Lines

Model TIE24-4 shown  
also available as 1/2 hub 12 channel - model TIE12-4

Product Key	
Name	TIE24-4/TIE12-4
Mount	Full Hub / Half Hub
Channels	24 / 12
CAT-5 Pairs	2 (pins - 1,2,3,6)
Power Link	no
Connectors	RJ-21, 2 RJ-45's & 110
Versions	Full Hub/Half Hub/Board Only

### General

Tie Hubs provide multi-pair inter-studio connectivity by splicing out CAT-5 25 pair cable to individual RJ-45 connectors via a 50 pin RJ-21 mass connector. Depending on the model selected, either 2 or 4 CAT-5 pairs are connected to each RJ-45 connector. Double the density is achieved if only 2 pairs (4 wires) are required to connect to each RJ-45. Generally, 2 pair is sufficient to support StudioHub+ analog and digital audio circuits. All 4 pairs (8 wires) are needed to support KVM and other special multi-wire equipment circuits.

### DC Power

"DC" Tie-Line hub models allow StudioHub+ "DC-Link" +/- 15 volt power to be added on the far-side of the link to power local StudioHub powered peripherals (such as headphone amps and Matchjacks). An external StudioHub+ DC power supply must be utilized. Jumpers and re-settable fuses for each RJ-45 channel allow the DC power to be added. The power option is only available on 2-pair per RJ-45 Hub models.

### Grounding Information

RJ-45 connector shields may be optionally connected to the chassis ground by inserting a jumper. A jumper is also provided to allow the unused CAT-5 25<sup>th</sup> pair to be connected to this common shield bus. In addition, on powered models, the power supply shield may be jumper connected to the RJ-45 shields.

