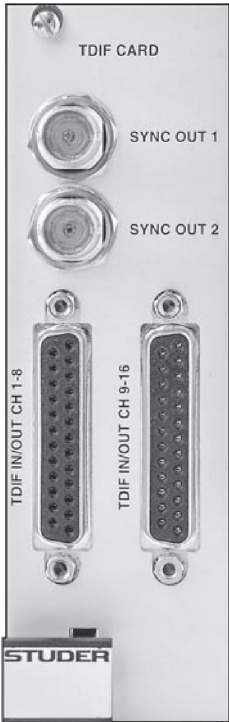


6.3.4 TDIF I/O Card (VISTA, OnAir, ROUTE 6000)

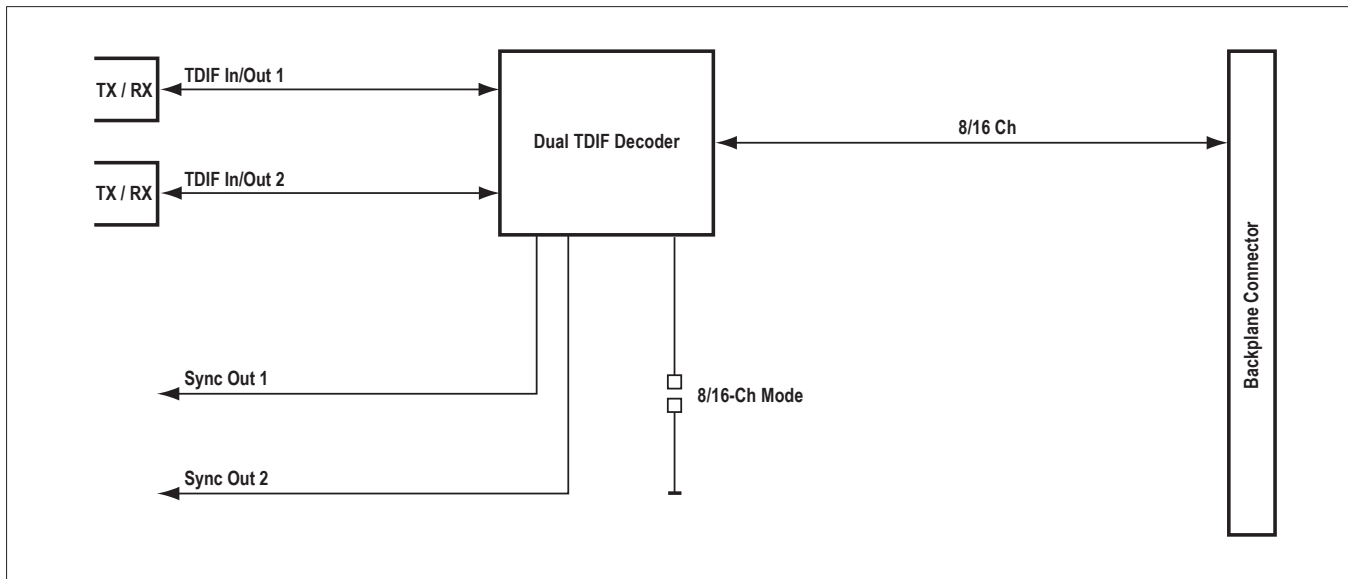
A949.0426



This card provides two eight-channel TDIF I/O interfaces with 96 kHz, 88.2 kHz, 48 kHz, or 44.1 kHz operation with wordclock sync outputs on BNC connectors. Inputs and outputs are provided on standard 25-pin D-type connectors (female).

In 96/88.2 kHz operation, the number of channels is limited to eight, i.e. four per I/O.

| | |
|------------------------------------|----------------------------------|
| TDIF inputs/outputs | according to TDIF specifications |
| Current consumption (3.3 V) | 5 mA |
| (5 V) | 0.1 A |
| Operating temperature | 0-40 °C |

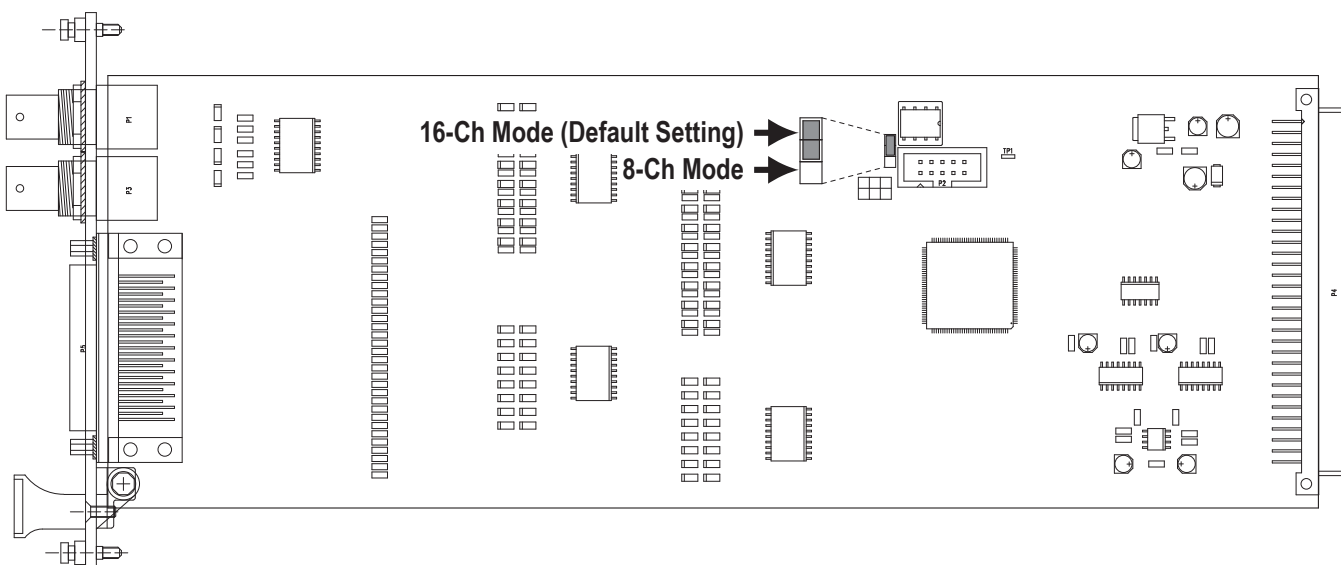


Jumper

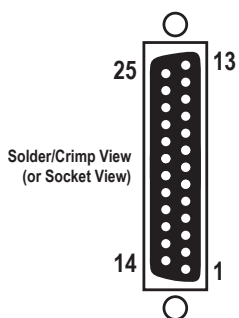
8/16 Ch Mode

In 96 kHz mode the card handles a total of 8 channels (4 per interface). In order to avoid different numbers of channels when switching from 96 kHz to 48 kHz and vice versa, it is possible to restrict the card to 8 channels even in 48 kHz mode. In such a case only the first interface (**TDIF IN/OUT CH 1-8**) is active, as shown in the table below.

| Jumper Setting | Channels on Backplane | Interface 1 | Interface 2 |
|---------------------------------|-----------------------|----------------|-----------------|
| 16-Ch Mode (factory default) | 16 in, 16 out | 48 kHz: Ch 1-8 | 48 kHz: Ch 9-16 |
| | | 96 kHz: Ch 1-4 | 96 kHz: Ch 5-8 |
| 8-Ch Mode | 8 in, 8 out | 48 kHz: Ch 1-8 | 48 kHz: unused |
| | | 96 kHz: Ch 1-4 | 96 kHz: Ch 5-8 |

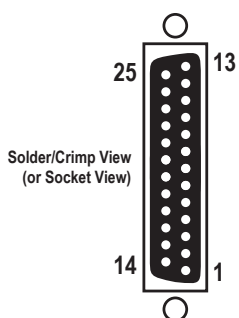


Connector Pin Assignment, 48 kHz Operation (2 × 25pin D-type, female, UNC 4-40 thread)



| Pin | Signal CH 1-8 | Signal CH 9-16 | Pin | Signal CH 1-8 | Signal CH 9-16 |
|-----|---------------|----------------|-----|---------------|----------------|
| 1 | CH 1/2 out | CH 9/10 out | 14 | GND | GND |
| 2 | CH 3/4 out | CH 11/12 out | 15 | GND | GND |
| 3 | CH 5/6 out | CH 13/14 out | 16 | GND | GND |
| 4 | CH 7/8 out | CH 15/16 out | 17 | GND | GND |
| 5 | LRCK out | LRCK out | 18 | EMPH out | EMPH out |
| 6 | FS 0 out | FS 0 out | 19 | FS1 out | FS1 out |
| 7 | GND | GND | 20 | FS0 in | FS0 in |
| 8 | FS 1 in | FS 1 in | 21 | EMPH in | EMPH in |
| 9 | LRCK in | LRCK in | 22 | GND | GND |
| 10 | CH 7/8 in | CH 15/16 in | 23 | GND | GND |
| 11 | CH 5/6 in | CH 13/14 in | 24 | GND | GND |
| 12 | CH 3/4 in | CH 11/12 in | 25 | GND | GND |
| 13 | CH 1/2 in | CH 9/10 in | | | |

Connector Pin Assignment, 96 kHz Operation (2 × 25pin D-type, female, UNC 4-40 thread)



| Pin | Signal CH 1-8 | Signal CH 9-16 | Pin | Signal CH 1-8 | Signal CH 9-16 |
|-----|---------------|----------------|-----|---------------|----------------|
| 1 | CH 1 out | CH 5 out | 14 | GND | GND |
| 2 | CH 2 out | CH 6 out | 15 | GND | GND |
| 3 | CH 3 out | CH 7 out | 16 | GND | GND |
| 4 | CH 4 out | CH 8 out | 17 | GND | GND |
| 5 | LRCK out | LRCK out | 18 | EMPH out | EMPH out |
| 6 | FS 0 out | FS 0 out | 19 | FS1 out | FS1 out |
| 7 | GND | GND | 20 | FS0 in | FS0 in |
| 8 | FS 1 in | FS 1 in | 21 | EMPH in | EMPH in |
| 9 | LRCK in | LRCK in | 22 | GND | GND |
| 10 | CH 4 in | CH 8 in | 23 | GND | GND |
| 11 | CH 3 in | CH 7 in | 24 | GND | GND |
| 12 | CH 2 in | CH 6 in | 25 | GND | GND |
| 13 | CH 1 in | CH 5 in | | | |