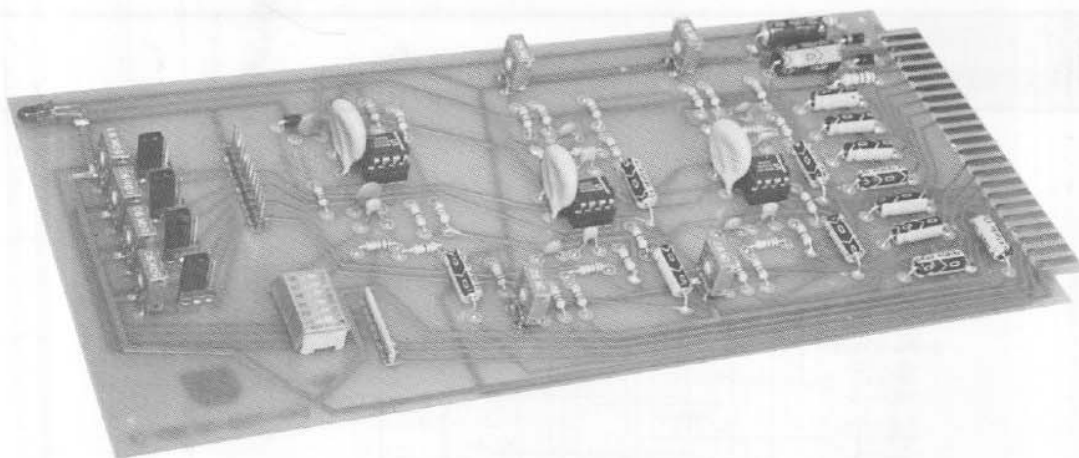


USI AUDIO

TM

3075-SA Seven Input Summing Amplifier for DME-3000 System



Product Data

- Mixes seven line level inputs
- Four actively balanced inputs with internal or external level controls each with a direct out
- Four position DIP switch controls assignment of each balanced input to mixing buss
- Three unbalanced line level inputs routed directly to mixing buss
- LED for indication of overload at the outputs
- Jumper to set overall gain for the card at 0 dB or +10 dB
- For use with the USI Audio DME-3000 Series modules and chassis

Specifications:

Input Impedance	
(Inputs 1-4)	15K Ω Balanced
(Input 5-8)	10K Ω Unbalanced
Output Level (Unbalanced Out)	
+16 dBm	600 Ω load $\pm$ 12 VDC
+18 dB	10K Ω load
+18 dBm	600 Ω load $\pm$ 15 VDC
+20 dB	10K Ω load
Frequency Response	
20 Hz - 50 kHz, $\pm$ 0.5 dB	
at Max output, 600 Ω load	
Harmonic Distortion	
<0.03% @ +18 dBm and 600 Ω load	
Signal to Noise	
-88 dB (-120 dBm E.I.N.)	
@ +18 dBm and 600 Ω	
Dimensions	
4.25" x 9.375" x 0.75"	
(10.8cm x 23.8cm x 1.9cm)	
Power Requirements	
$\pm$ 12-15 VDC	
34 mA @ $\pm$ 12VDC Max	
40 mA @ $\pm$ 15VDC Max	
Net Weight	
0.31 lbs. (0.14 kg)	
Shipping Weight	
1 lbs. (0.45 kg)	

Description

The USI Audio Model 3075-SA is a multipurpose audio processor designed for use in custom audio applications. It provides high performance in a cost effective package which can be fabricated into a system with minimum shop and field labor.

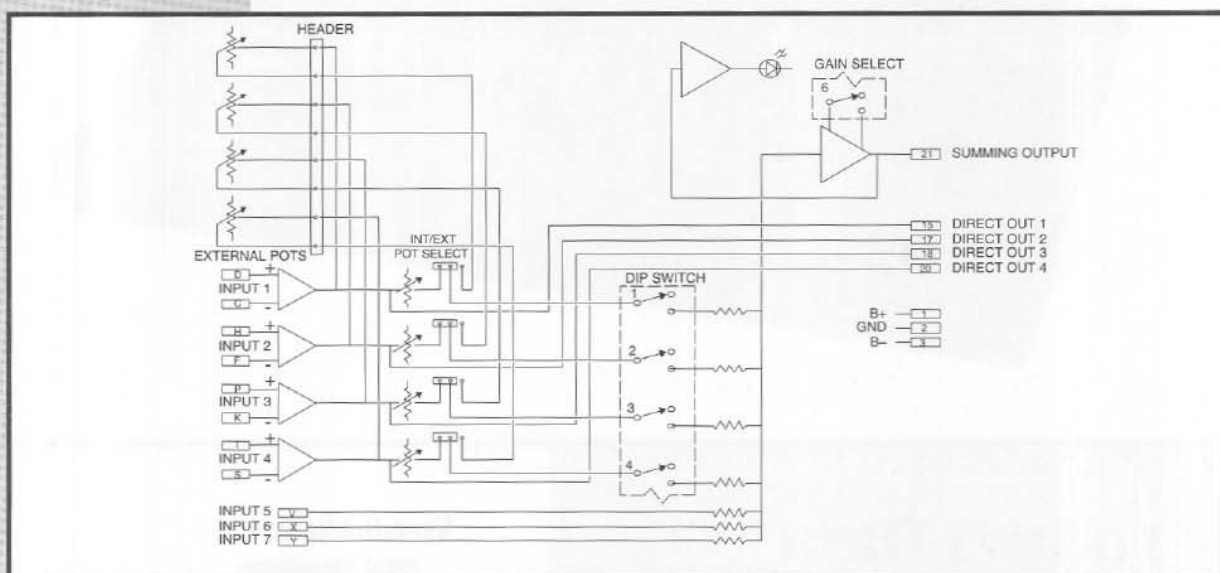
The 3075-SA provides four actively balanced line level inputs summed to a single unbalanced output. Each of these inputs provides a direct output for use as a line level driver as well as the ability to combine with other inputs on the summing bus. Assignment of each input is made to the summing bus via DIP switches. Each balanced input is provided with a trim pot on the front of the card for level control. Alternatively, the level of these inputs may be controlled by external pots individ-

ually assigned by jumpers on the card. In addition to the four balanced inputs, each 3075-SA card includes three unbalanced line level inputs that are routed directly to the summing bus.

The unit includes a LED peak indicator that lights when overload occurs at the outputs. Gain may be set via a jumper to either unity or +10 dB to compensate for consumer equipment interfacing.

The unit is designed to be used as either a stand alone card with edge connectors installed within a rack or enclosure, or with the USI Audio 3000-MF Chassis, which will accommodate up to eight cards in a 5 1/4" high rack mount.

Block Diagram



Architect's and Engineer's Specifications

The card shall be a general purpose audio summing amplifier. It shall provide four actively balanced inputs and three unbalanced line level inputs summed to a single unbalanced output. In addition, each of the four inputs shall feed directly to an unbalanced line level output for use as line driver. An on board four-position DIP switch shall determine which of the four balanced inputs are assigned to the summing buss. Each of the

four balanced inputs shall be attenuated from either its on board trim pot, or from an external trim pot wired to the card. The three unbalanced inputs shall be routed directly to the summing buss without routing selection or attenuation. The card shall function as a stand-alone unit or with the USI Audio 3000-MF Chassis. The card shall be the USI Audio Model 3075-SA.

**USI
AUDIO**TM

• Division of University Sound® • Mark IV Company

**13278 Ralston Avenue
Sylmar, CA 91342
Phone (818) 362-9516
FAX (818) 362-3463**