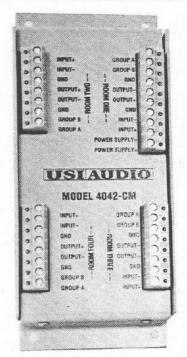
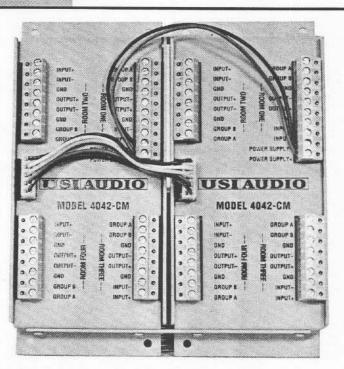
IJSI AUDIO

4042-CM/ 4082-CM Room Combining Matrices for ACE-4000 System







4082-CM

Product Data

- Room combining functions are digitally controlled
- Four (4042-CM) or eight (4082-CM) inputs and outputs
- All inputs are balanced
- Two combining groups
- Remote control triggered by simple switch closure.
- All connections made via removeable screw terminal blocks
- Non-mechanical solid-state switching prevents pops or clicks when triggered
- No change in signal level when rooms are switched in or out of combining groups

Specifications:

Frequency Response 20 Hz to 20 kHz +0/-1 dB

Distortion less than 0.1%

Gain 0 dB

Measured Input Impedance

36 KΩ

Measured Output Impedance

 100Ω

Crosstalk -87 dB (ref 1 VRMS input)

Power Requirements 15 VDC to 30 VDC @ 30 mA

Dimensions

Height 6.64" (16.9 cm)

Width 2.9" (7.4 cm) (4042-CM)

5.9" (15.0 cm) (4082-CM)

Depth 1.2" (3.0 cm)

Net Weight 0.52 lbs. (0.24 kg) (4042-CM)

1.1 lbs. (0.50 kg) (4082-CM)

Shipping Weight 1 lbs. (0.45 lbs)

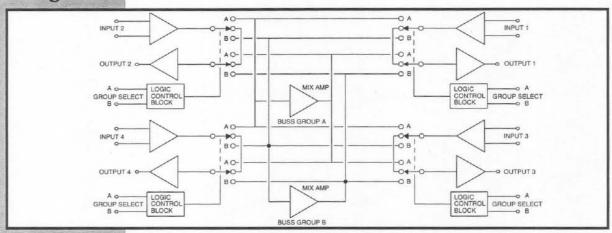
Color Tan

Description

The Model 4042-CM is a four-room, two group, room combining matrix used to electronically combine two to four rooms in either of two groups. The 4082-CM is functionally equivalent to the 4042-CM, but accomodates up to eight rooms between its two combining groups. The 4042-CM has four input and output channels corresponding to the four room connections. The inputs of these channels are normally routed right back to the corresponding output. Each of the four input/output pairs has a GROUP A and a GROUP B terminal. When either of these terminals is shorted to ground, that input is redirected to one of two internal mix busses. The output of this mix buss is then distributed back to the outputs of each of the input/output pairs assigned to that group. Since there are two

of these groups, you can easily have two separate room combinations at the same time. Each of these groups may have any number of rooms assigned to them. This allows you to accomodate any possible combination of rooms. A room may also be assigned to one group at a time. If both group assignent terminals are grounded, the input is directed back to its corresponding output. All inputs are balanced, and all of the outputs are designed to drive balanced lines. This allows you to locate the 4042-CM hundreds of feet away from the mixer/amplifiers that service the room. While the 4042-CM is primarily designed for use with USI Audio's series of in-wall mixer/amplifiers, its standard line level inputs and outputs enable it to be used effectively with other mixer/amplifier combinations.

Block Diagram



Architect's and Engineer's Specifications

[The following applies to the 4042-CM only:]

The room combining matrix shall have four input/out-put pairs, each of which may be used independently or combined to either of two groups. The unit shall use only solid state components to perform all switching functions. All remote control of combining functions shall be accomplished with simple switch closure. All connections to the unit shall be made on removeable screw terminal blocks. All inputs shall be balanced and all outputs shall drive balanced or unbalanced lines. The unit shall measure 6.6" x 2.9" x 1.2" (16.9 cm x 7.4 cm x 3.0 cm) and weigh 0.52 lbs. (0.24 kg). The unit shall operate from a 15 VDC to 30 VDC, 30 mA supply. The room combining matrix shall be the USI Audio Model 4042-CM.

THE PRESENTATION

[The following applies to the 4082-CM only:]

The room combining matrix shall have eight input/output pairs, each of which may be used independently or combined to either of two groups. The unit shall use only solid state components to perform all switching functions. All remote control of combining functions shall be accomplished with simple switch closure. All connections to the unit shall be made on removeable screw terminal blocks. All inputs shall be balanced and all outputs shall drive balanced or unbalanced lines. The unit shall measure 6.6" x 5.9" x 1.2" 16.9 cm x 15.0 cm x 3.0 cm) and weigh 1.1 lbs. (.50 kg). The unit shall operate from a 15 VDC to 30 VDC, 60 mA supply. The room combining matrix shall be the USI Audio Model 4082-CM.



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