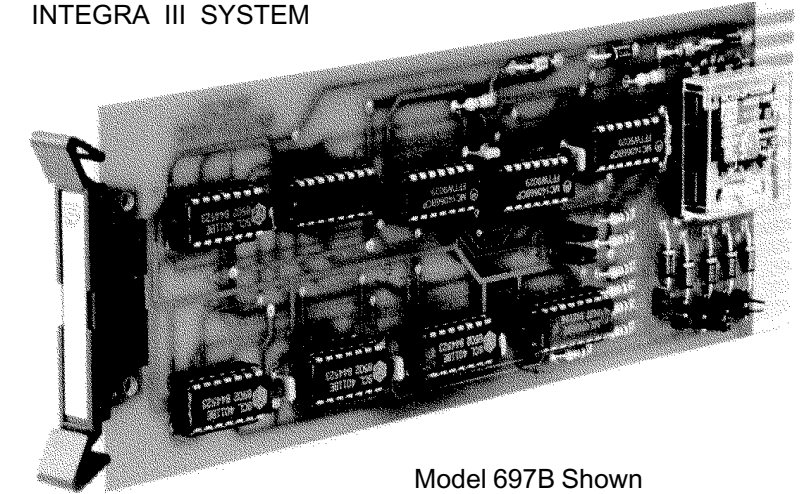


MODELS COVERED

697B

INTEGRA III SYSTEM



Model 697B Shown

www.protechaudio.com

The Model 697B Priority Switcher card is designed for use in professional audio applications. The card has 5 inputs, and a single output. Each input may be turned on, via an external ground closure, until an input with a higher priority number comes on. At that point the input with a lower priority level will be shut off until the higher level priority channel releases control. Then the lower priority channel will again be turned on. There are 5 levels of priority on each card. The cards may be linked together to create additional levels of priority.

The application of the card is found in public address systems, emergency communication systems, or training systems. The actual application of the priority switcher is found in buildings such as airports, factories, office buildings, mass transit systems, operator training systems, and convention centers.

Each input, and the output, are double-pole. This allows the priority switcher to handle balanced lines. All five sets of closures are solid-state CMOS switches. When activated, the switch closure set goes to a low-on resistance. This action allows the unit to switch even microphone level signals, without introducing objectionable pops and clicks. When deactivated, or over-ridden by a higher priority level closure, the CMOS switch goes to a high resistance state.

In addition to the five sets of solid-state closures, the Model 697B has a built-in double-pole, double-throw relay, capable of switching loads up to 5 amps. The relay may be used to control by-pass relays mounted in various remote speaker attenuators. When used in this manner, the relay will automatically switch the remote relays over to a "Full Volume" setting, for emergency announcements. This relay circuit is controlled by strapping the relay ground leg (via on-board push-on jumpers) to the control port for each solid-state closure set. This arrangement allows the user to strap the relay to any or all CMOS ground closures, to create the volume override condition.

The Model 697B Priority Switcher card is linkable. By strapping two cards together, the user can effectively create 10 levels of priority. Switch #1 on card #1 would have the highest level of priority. Switch #5 on card #2 would have the lowest level. Cards may be linked in any number within a card frame to create additional levels of priority.

The Model 697B Priority Switcher card may be used in conjunction with Model 590 Programmable Switcher card to create switching systems incorporating features such as lock-out, last-on, and all-call.

The Model 697B has been designed to provide the user with years of reliable, uninterrupted service.

INSTALLATION

The Model 697BB Priority Switching Card is designed to be mounted in either the Model 857B or 858B Card Frame Package.

Model 857B - is designed for use with 10 audio cards and external power supply (Model 66708).

Model 858B - is designed for use with 9 audio cards, and one plug-in power supply card (Provided).

The determination as to which backplane assembly to use in your project, was made prior to our factory receiving the order. The backplane assembly you have received will accommodate the group of cards you or your designer have specified.

The actual steps necessary for installation of the 697B Priority switching card, are comparable to those necessary for any of the INTEGRA III SYSTEM cards. They are as follows:

1- Mount the card frame in an appropriate EIA 19" width rack, using 4 screws of sufficient tensile strength to provide secure mounting.

2- A determination has been made as to which type of power supply will be used on your system. Follow the instructions for the type of power supply you will be installing.

EXTERNAL POWER SUPPLY. If an external power supply is to be used, terminate the proper supply connections to pins 1, 2, & 3 of the DC connector, as shown in the card frame layout drawing Turn on the power supply, and using a DC voltmeter, check for correct voltage and polarity at pins 1, 2, & 3 of of the DC connector.

INTERNAL POWER SUPPLY. If a plug-in power supply card is to be used, plug in the supply card, and check for proper illumination of both plus and minus DC green LED's.

3- Terminate all audio input and output connections, using the card connection drawing on the facing page. Shielded cable is recommended for all audio connections.

4- Unpack each individual card, inspect for shipping damage, and assuming none is found, slide the card half-way into the appropriate slot. After all cards have been installed half-way into the card frame, plug in one card at a time and turn on the power supply. Make sure no unusual loading is noticed at the power supply. If loading is noticed, turn off the power supply, unplug the card and recheck terminations. If no loading is noticed, continue inserting each card in the card frame, checking power supply loading as each card is plugged in. When all the cards have been plugged in, the installation is complete, and all that remains is the alignment.

ALIGNMENT

The Model 697 does not require alignment. Operation of the unit may be checked in the following manner.

- 1- Apply a signal representative of the actual signal level to be used, to contacts 1 HI & 1 LO inputs.
- 2- While monitoring the output, ground switch #1. Check for proper signal level at the output pins.
- 3- Repeat steps 2 & 3 for each switch channel on the Model 697.

This completes the installation and alignment of your Model 697 Priority switching Card. The card(s) may be expected to deliver years of uninterrupted service.

Note 1- The alignment procedures for INTEGRA III SYSTEM cards, differ from card type to card type. Therefore it is necessary to consult the alignment procedure for each type of card being installed, to properly align a card frame using different card types.

PROTECH®

INTEGRA III SYSTEM
CONNECTOR DRAWING
MODEL 697B

857B & 858B Backplane Connections

To Lower
Priority Level
cards.

Link Out	16	⊗	⊗	1	Output LO
K1B N/O	17	⊗	⊗	2	Output HI
K1B N/C	18	⊗	⊗	3	GROUND
K1B Arm	19	⊗	⊗	4	K1A N/O
Input 4 HI	20	○	○	5	K1A N/C
Input 4 LO	21	○	○	6	K1A Arm
Switvh 4	22	○	○	7	Input 1 HI
Input 2 HI	23	○	○	8	GROUND
Input 2 LO	24	○	○	9	Input 1 LO
Switch 2	25	○	○	10	SWITCH 1
Input 3 HI	26	○	○	11	Input 5 HI
Input 3 LO	27	○	○	12	Input 5 LO
Switch 3	28	○	○	13	GROUND
Link In	29	○	○	14	
	30	○	○	15	SWITCH 5

From Higher
Priority Level
Cards.

INPUT #1 IS HIGHEST LEVEL PRIORITY

NOTES: