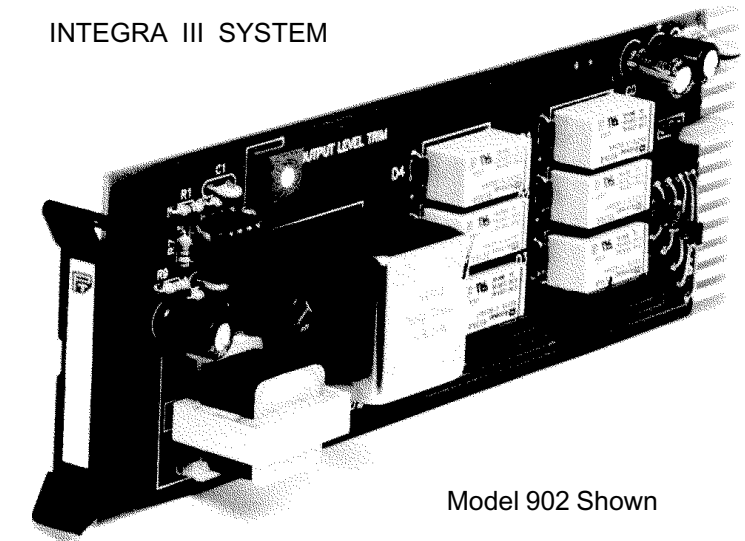


MODELS COVERED**902**

INTEGRA III SYSTEM



Model 902 Shown

www.protechaudio.com

The Model 902 Priority Paging Switcher Card is designed for use in professional audio applications. Each unit features six (6) paging inputs, one (1) line level output, and a switch closure circuit for control of priority bypass relays, or other paging functions.

Typical applications are public address systems in buildings such as airports, factories, hospitals, courthouses, casinos, convention centers, libraries, hotels, racetracks, and office buildings.

The mechanical construction of the Model 902 allows mounting of up to ten (10) units in a Model 857B Card Frame, or 9 units in a Model 858B Card Frame. Each Model 902 card unplugs from the front of the card frame, without the need for removing any wires from the rear of the card frame. Spare units may be placed into service in a matter of minutes.

Each Model 902 has six inputs, which are arranged in a series configuration. Each input passes thru a number of double-pole double-throw relays. Activating any higher priority relay disconnects the relay chain at the selected point, and allows the higher priority input channel to pass thru to the output stage. Input stage number 6 is normally used for background music, and is configured in the normally ON position. Activating any of the other five (5) inputs will disconnect input number 6.

The Model 902 Priority Paging Switcher Card is balanced at both the input and output stages. The output level may be adjusted by using the on-board output level control trimpot.

The relay control circuits are activated by grounding the individual control pins as indicated on the block diagram on page 3 of this manual. In addition to the paging input controls, grounding any of the control pins will activate the priority bypass relay control circuit. This circuit is usually used to activate bypass relays in remote level attenuators. However, it may be wired to any control circuit requiring no more than 1 amp of current at 24VDC.

All integrated circuits used in the Model 902 are mounted in plug-in IC sockets, to facilitate maintenance of the system. The DC power supply connections are protected by self-resetting electronic fuses. If a card should malfunction, the electronic fuses will disconnect the card from the power supply. The same type of fusing is provided in the priority bypass relay control circuit.

Other INTEGRA III SYSTEM cards, such as distribution amplifiers or compressors, may be used in the same card frame assembly, to allow construction of complete audio systems.

Each of these products is designed to provide the user with high quality audio, for years of uninterrupted service.

INSTALLATION

The Model 902 Priority Paging Switcher Card is designed to be mounted in the Model 857B Card Frame, or the Model 858B Card Frame.

The Model 857B Card Frame will accommodate up to 10 audio cards, and requires an external power supply (Model 66708). The Model 858B Card Frame will accommodate up to 9 audio cards (depending upon AC current requirements), and has a built-in, unpluggable power supply card.

All card frame assemblies bus the DC power to the individual card slots, and provide screw-type barrier termination points for audio and DC connections.

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 INTEGRA III SYSTEM Priority Paging Switcher Cards, are comparable to those necessary for any of the 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 3 pin barrier 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 the 3 pin barrier 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 DC voltage green LED's.

3 - Terminate all audio input and output connections, using the card connection drawing on the facing page. Double conductor 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, 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

Each Model 902 Priority Paging Switcher Card with has been shipped from the factory aligned for unity gain. If gain adjustment is required, the following procedure is recommended:

- 1- Remove the Model 902 card from the card slot, and place a Model 516 extender card in the slot.
- 2- Place the Model 902 into the mating connector on the model 516 extender card.
- 3- Actuate any on the 5 paging channel input relays, apply a signal representative of the page input level to the selected channel, and adjust the output level by turning the output level control trimpot.
- 4- Remove the Model 902 from the Model 516 Extender card, remove the extender card from the card slot, and place the Model 902 into the card slot, making sure it is seated properly.

This completes the installation and alignment of your INTEGRA III SYSTEM Priority Paging Switcher Card. The cards may be expected to deliver year of uninterrupted service.

PROTECH[®]

**INTEGRA III SYSTEM
CONNECTOR DRAWING
Priority Paging Switcher Card
Model 902**

857B & 858B Backplane Connections

	16		
	17		
	18		
Input #6 HI	19		
Input #6 LO	20		
Relay Bypass ARM	21		
Relay Bypass N/O	22		
Relay Bypass N/C	23		
	24		
	25		
	26		
	27		
	28		
	29		
	30		
		1	Input #4 LO
		2	Input #4 HI
		3	Ground
		4	Input #5 HI
		5	Input #5 LO
		6	Input #3 HI
		7	Input #3 LO
		8	Ground
		9	Input #2 HI
		10	Input #2 LO
		11	Input #1 HI
		12	
		13	Ground
		14	Output Hi
		15	Output Lo

PAGE OUTPUT
LEVEL CONTROL

