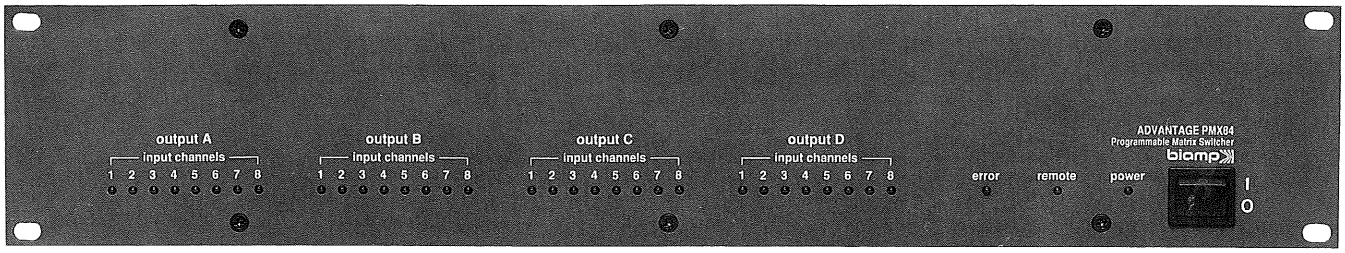
advantage® AMERICAN SOUND CRAFTSMANSHIP

PMX84

Programmable Matrix Switcher

NEW

NOW AVAILABLE WITH WINDOWS®95 SOFTWARE



The ADVANTAGE® **PMX84** Programmable Matrix Switcher provides eight inputs and four outputs under microprocessor control, with complete programmability and remote control of crosspoint switching via infrared, wall-mount panel, logic inputs, and/or computer. Multiple units may be used to expand input/output capability of the matrix. The PMX84 is extremely versatile, and ideal for applications such as room combining, zone paging, program routing, and mix-minus. The PMX84 is easy to use, and is covered by a Five-Year 'Gold Seal' Warranty.

FEATURES

- ♦ eight balanced line inputs with level control & peak indicator
- ♦ four balanced line outputs with level, patch, & expansion
- ♦ inputs and outputs provided on plug-in barrier strip terminals
- ♦ linking of multiple units for increased matrix inputs/outputs
- ♦ all inputs are assignable to all outputs in any configuration
- ♦ input/output assignments via 'on', 'off', or 'toggle' switching
- ♦ up to fifty presets affecting single or multiple inputs/outputs
- ♦ four remote control ports with location assignable commands
- ♦ remote control via infrared, wall-panels, switches, or RS-232
- ♦ sixteen logic inputs for remote control via external switches
- ♦ logic inputs include combining, override, & default modes
- ♦ sixteen logic outputs for controlling external circuits or relays
- ♦ logic output assignments via 'on', 'off', or 'toggle' switching
- ♦ serial port for programming and/or RS-232 computer control
- ♦ linking port for combined remote control of multiple units
- ♦ front panel indicators display input-to-output assignments
- ♦ PC control software package and serial cable included
- ♦ covered by Five-Year "Gold Seal" Warranty
- ♦ CE marked and **UL** listed power source

ARCHITECT'S & ENGINEER'S SPECIFICATION

(available on floppy disc)

The programmable matrix switcher shall provide eight balanced line inputs and four balanced line outputs, with crosspoint switching controlled via an internal microprocessor. Inputs and outputs shall be on plug-in barrier strips. Each input shall include a screwdriver-adjustable level control and LED peak indicator. Each output shall include a screwdriver-adjustable level control, a Patch jack, and an Expansion In jack. Patch and Expansion In jacks shall be TRS 1/4" phone connectors, and shall provide for insertion of signal processing or stacking of external signals at the outputs. Patch and Expansion In jacks shall also provide linking of multiple units to increase matrix input capability. Parallel input wiring shall link multiple units to increase matrix output capability.

All inputs shall be assignable to all outputs in any configuration. Inputs shall assign to outputs via on, off, or toggle commands, which are stored as presets. Up to fifty presets shall be programmable, each affecting individual or multiple inputs/outputs. Four remote control ports shall be provided, with selected presets assignable to each port, for location dependent control. Sixteen logic inputs shall allow control via contact-closures or logic outputs. Logic inputs shall include room combining, emergency override, and default setting modes. Sixteen Logic outputs shall be provided for controlling external circuits, such as indicators or relays. Logic outputs shall assign via on, off, and toggle commands, and shall also be stored in presets. A serial port shall be provided for programming and RS-232 control. A PC control software package and a serial cable shall be included. A linking port shall be provided to allow combined remote control of multiple units. Front panel LED indicators shall display input-to-output assignments.

Performance specifications (20Hz~20kHz) shall be: Frequency Response +0/-0.2dB; Total Harmonic Distortion < 0.007%; Output Noise < -93dBu (one input assigned @ unity gain). Dimensions shall be 3.5" H x 19" W x 11.5" D. Weight shall be 8.0 lbs. Power consumption shall be less than 15 watts. Warranty coverage shall be 5 years. The unit shall be CE marked and the power source shall be UL listed.

The programmable matrix switcher shall be an ADVANTAGE® PMX84.

Biamp Systems, 14130 N.W. Science Park Drive, Portland, Oregon 97229 U.S.A. (503) 641-7287
an affiliate of Rauland-Borg Corp.

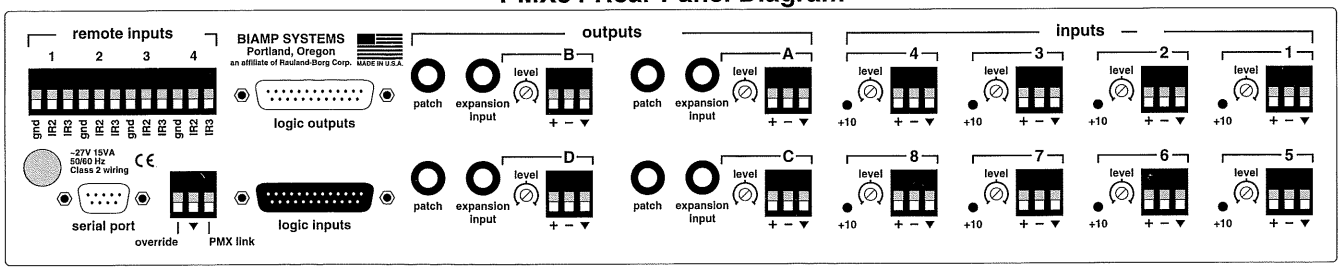
PMX84

SPECIFICATIONS

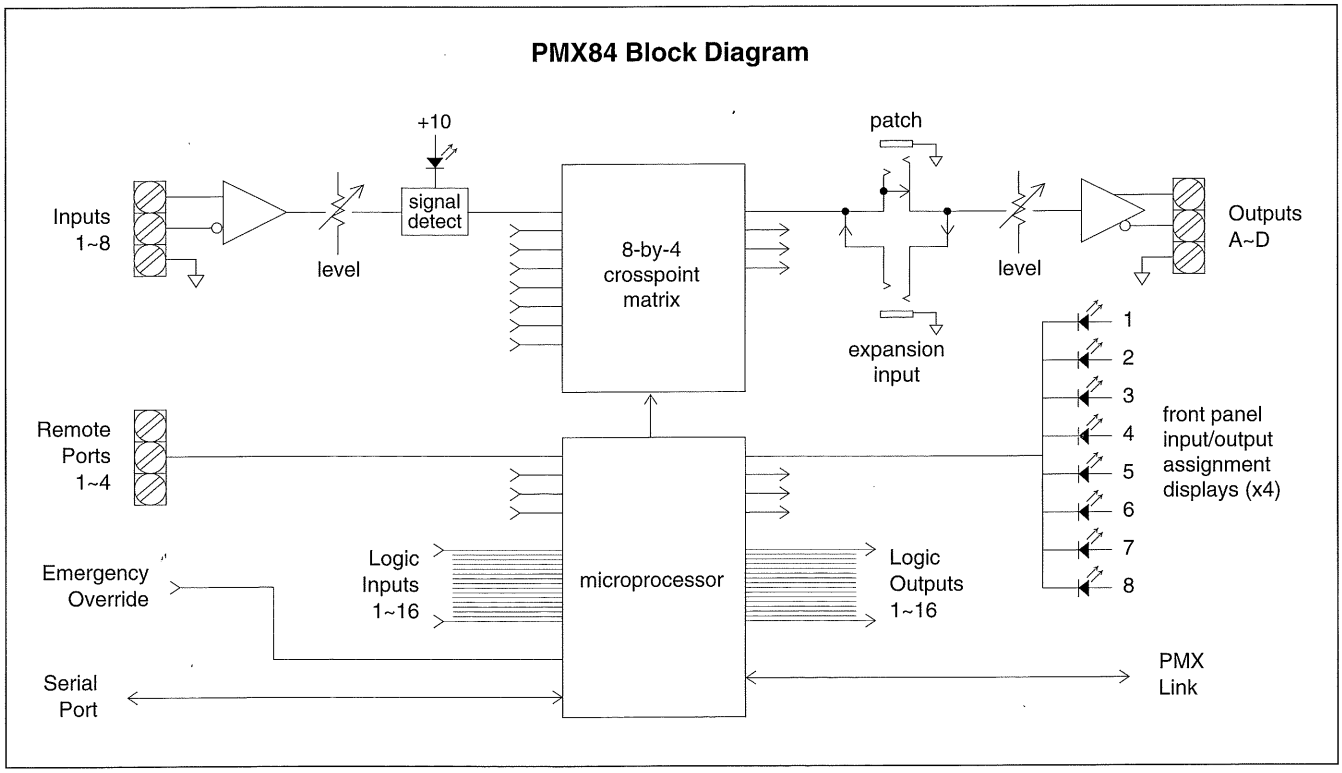
Frequency Response (20Hz~20kHz @ +4dBu):	+0/-0.2dB
Total Harmonic Distortion (20Hz~20kHz @ +4dBu):	< 0.007%
Output Noise (20Hz~20kHz @ unity gain):	
one input assigned	-93dBu
eight inputs assigned	-87dBu
Maximum Gain (input & output level controls max.):	+20dB
Input Level Control Range:	-∞~+10dB
Output Level Control Range:	-∞~+10dB
Input Impedance:	
input (balanced)	20k ohms
patch (unbalanced - level control dependent)	7k~25k ohms
expansion in (unbalanced)	20k ohms
Maximum Input:	
input	+18dBu
patch	+18dBu
expansion in	+18dBu

Output Impedance:	
output (balanced)	200 ohms
patch (unbalanced)	50 ohms
Maximum Output:	
output (balanced)	+24dBu
patch (unbalanced)	+18dBu
Input Off Attenuation (20Hz~20kHz @ +4dBu):	-60dB
Logic Inputs (TTL compatible):	5V
Logic Outputs (open collector):	24V / 50mA max.
Power Requirements:	115/230V @ 50/60Hz
Power Consumption:	< 15 Watts
Dimensions:	
height (2 rack-spaces)	3.5" (89mm)
width	19" (483mm)
depth	7.5" (191mm)
Weight:	8.0 lbs. (3.63kg)

PMX84 Rear Panel Diagram



PMX84 Block Diagram



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