



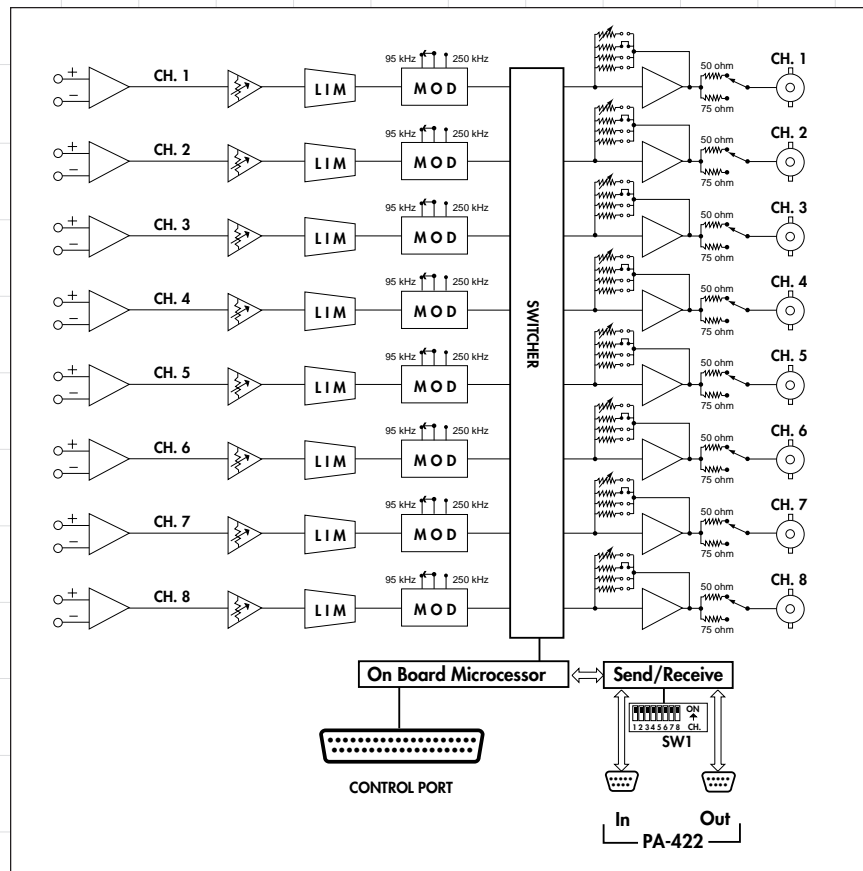
PIR-88M INFRARED MATRIX™ SYSTEMS

Oxmoor Corporation, LLC's eight-channel Infrared Matrix system simplifies the integration of infrared assistive listening and room combining systems. By routing appropriate IR modulators and emitter panels to coincide with room combining changes, both models eliminate intermodulation interference without the need for complicated physical patching.

The PIR-88M Infrared Modulator Matrix™ packs eight electronically balanced audio inputs and eight RF modulators into the same compact 1U chassis. Each of the PIR-88M's modulators is limiter-protected and may be switched to 95 kHz or 250 kHz with front-panel LED display of the selected frequency.

The system easily interfaces with Oxmoor's MCS™ Room Combining System through PA-422 ports. Connected to the MCS-Mainframe, the PIR-88M configures IR assistive listening systems, automatically tracking room combining changes selected at the MCS master controller. IM interference between emitter panels is prevented by allowing only one modulator to drive the selected group of emitter panels.

Integrating the Oxmoor Infrared Matrix Systems into other combining systems is also simple. Control can come from either external "preset" switches or a PA-422 controller. Up to eleven presets can be user pro-



PIR-88M Infrared Modulator Matrix™

grammed, each providing a different patching assignment between the eight input and output connections.

A 37-pin standard D-sub connector provides the connections for external preset switches. This Control Port facilitates an external switch for programming the presets and "tally" indicator activation (open-collector closures to common) for routing and program switches. DC power is also present at the Control Port for tally LEDs.

The screw terminal blocks on the PIR-88M accept balanced or

unbalanced audio inputs. BNC RF OUT jacks on both units present the signal to be delivered to each emitter panel.

Other rear panel connectors include 9-pin, D-sub PA-422 input and output ports, used to receive PA-422 data and pass it along to the next PA-422 device, and cage clamp terminal block connections for the external ± 15 VDC powering module.

PIR-88M™ SPECIFICATIONS



AUDIO INPUTS	Type	Electronically Balanced (RF Suppressed)
	Connectors	Screw Terminal Blocks with Mating Connector
	Input Impedance	80 K Ohms
	Input Sensitivity	Nominal +4 dBu, Maximum +24 dBu
	Trim Pot Range	±15 dB
MODULATOR	Input	Limiter Protected
	Frequency	95 kHz or 250 kHz Selectable
	Preemphasis	50 µ sec.
	Peak Deviation	± 50 kHz
	Crosstalk Attenuation	50 dB @ 250 kHz
RF OUTPUTS	Connectors	BNC
	Output Level	750 mV rms
CONTROL PORT	Connector	37-pin D-sub, Female
	Input Type	Active Low, Internally Pulled Up
	Logic Action "Selectable"	Momentary or Maintained Closure to Common
	Logic Levels	Low < .8 Volts, High > 2.4 Volts
	Maximum Sink Current	1 mA
	Maximum Cable Length	600 m (2000 ft), #22 AWG
	Switching Time	50 ms
COMMUNICATION	Power Output	+15 VDC ± 0.1 V, 50 mA
	Protocol	PA-422
	Input Connector	9-pin D-sub, Male
POWER	Output Connector	9-pin D-sub, Female
	Connector	Cage Clamp Terminal Blocks
	AC Adapter Provided	
	Voltage	±15 VDC
MECHANICAL	Current	1 Amp
	Overall Dimensions	44mm H x 482mm W x 183mm D (1.72" H x 19" W x 10" D)
	Finish	Textured Black Paint
	Weight	Shipping: 3.8 Kg (8.5 lb.) Net: 3.1 Kg (6.9 lb.)

Specifications subject to change without notice.

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