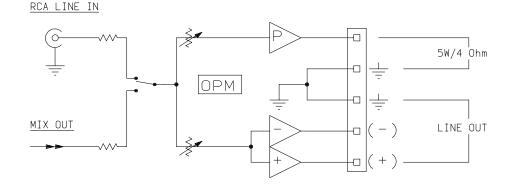


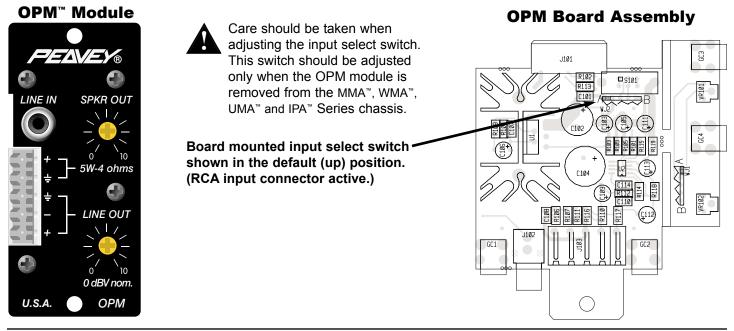
OPM[™] MA Series Output Power Module

The OPM is a powered output / balanced line output module for the MMA[™], WMA[™], UMA[™] and IPA[™] Series of Peavey Architectural Acoustics mixer/amplifiers. The OPM consists of a 5 Watt power amplifier and balanced line amplifier, both driven from either the internal mix signal or external line-level source. The two signal sources are internally pre-selectable with a slide switch included with the module. Two separate screwdriver-adjustable controls are included that adjust the powered and line level outputs. euro-style output connector, and an unbalanced RCA line input round out the features of the OPM module. The electronic balancing affords a good Common Mode Rejection Ratio (CMRR) at a low cost for short to medium cable runs.

FEATURES:	APPLICATIONS:
Modular construction	Retail outlets
 5 W into 4 Ohms power amplifier 	Auditoriums
 Economical electronically balanced line output 	Gymnasiums
Screwdriver-adjustable line output gain	Paging systems
 Screwdriver-adjustable power amplifier gain 	 Foreground music systems
Euro-style output connector	 Background music systems
 RCA unbalanced external line input 	Hotel meeting rooms
 Short circuit protection at the line and power outputs 	Houses of worship
 Thermal Protection at the power output 	Conference centers
Internal input / program selector	Civic centers
AUDIO SPECIFICATIONS	Line Input Resistance:
Nominal Load Resistance:	>/= 20k Ohms
Line output: 600 Ohms (min)	Maximum Available Gain (gain/dB):
Power output: 4 Ohms	Line output: 10/20
	Power output: 66/36
Nominal Output Level:	
Line output: 1 Vrms (0 dBV)	GENERAL SPECIFICATIONS
Power output: 4.5 Vrms (5 W @ 4 Ohms)	Dimensions:
	3.07" H x 1.4" W x 3.6" D
Maximal Output Level:	(77.97 mm x 35.5 mm x 91.5 mm)
Line output: 16 Vrms (+24 dBV)	
Power output: 5.5 Vrms (7.5 W @ 4 Ohms)	Net Weight:
	3.53 oz. (100 g.)
Frequency Response:	
Line output: +0/-1 dB, 20 Hz to 20 kHz	Power Consumption:
Power output: +0/-7 dB, 20 Hz to 20 kHz at 4 Ohr	ns 15 W (600 mA @24 V DC) supplied by the MMA, WMA, UMA or IPA Series mixer/amplifier.
Total Harmonic Distortion (@1kHz, & nominal output level):	
Line output: <0.05%	Finish:
Power output: <0.3%	Black powder-coat painted steel on mounting panel
SNR:	Input Selector Switch Settings:
= -86 dB Ref: Nominal output levels</td <td>Up: External RCA line input</td>	Up: External RCA line input
	Down: Internal mix input
Line Input Sensitivity (for nominal output levels, gain @ max):
= 70 mV</td <td>*Drawing is shown with default (external RCA line input) position.</td>	*Drawing is shown with default (external RCA line input) position.

OPM Block Diagram





SWITCH (MOUNTED ON CIRCUIT BOARD):

This switch determines which of the inputs is active. When the switch is in the default up position, the rear-panel RCA input connector is the input source. When the switch is in the down position, the internal mixing bus of the MMA, WMA, UMA or IPA Series integrated mixer-amplifier is the input source. It is not possible to operate the OPM module with both input sources active simultaneously. NOTE: The position of the switch (up or down) is based on the installed orientation of the OPM module.

LINE IN:

Female RCA connector for terminating a single-ended, line level audio signal. When the circuit board input select switch is in the "line" position, audio at this terminal is present at both the line and speaker level outputs. When this switch is in the down position, this input is disabled.

SPKR OUT:

Rotary control adjusts the amplitude (output) of the internal power amplifier. Controls the audio source selected by the circuit board mounted input select switch. The output of the amplifier is 5 Watts at 4 Ohms.

SPKR OUTPUT TERMINALS:

Speaker level unbalanced output. The audio at this terminal is after the 5 Watt power amplifier and independent of the line level output. The signal is single ended, unbalanced to ground. The SPKR OUT control determines the level present at this terminal.

LINE OUT:

Rotary control adjusts the amplitude (output) of the internal line amplifier. Controls the audio source selected by the circuit board mounted input select switch.

LINE OUTPUT TERMINALS:

Line level balanced output. The audio at this terminal is after the line amplifier and independent of the speaker level output. The signal is balanced, referenced to ground. The LINE OUT control determines the level present at this terminal.



Features and specifications subject to change without notice. Architectural Acoustics®, a division of Peavey Electronics Corporation 711 A Street • Meridian • MS • 39301 (601) 483-5376 • FAX (601) 486-1678 • http://aa.peavey.com

