

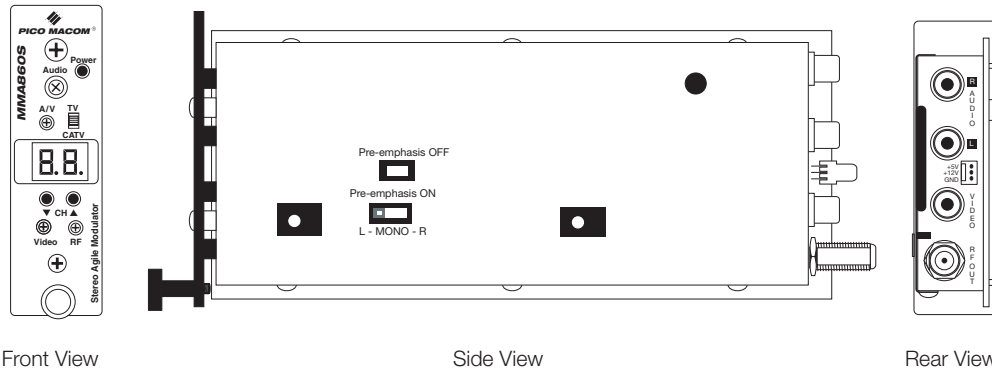


MMA860S Universal-Chassis Mini Stereo Agile Modulator

The **MMA860S** is a professional grade microprocessor-controlled stereo agile audio/video minimodulator. This modulator accepts any audio-video baseband television signal and provides a 45dBmV minimum output on CATV channels 2 to 135 (54-860 MHz). Channel selection is easily accomplished via channel up/down buttons located on the front panel. Up to 12 or 16 units can be installed “mix-and-match” in Pico Macom’s MPC-12, MPC-12C, MPC-12R chassis with MPCM45 mini-modulators or MPCD mini-demodulators. Its unique design enables it to be installed in other manufacturers’ mini-mod chassis. The unit’s tracking filter technology and double-heterodyne conversion ensures accurate and spurious-free output. The MMA860S uses SAW filtering in conjunction with FCC group delay correction circuitry to provide superior adjacent channel selectivity. The unit’s PLL circuitry in conjunction with the non-volatile memory contained in the microprocessor ensures easy and reliable channel selection and restoration. The MMA860S modulator is shipped with all internal adjustments preset. Pico Macom backs up this product with its industry leading 5-year limited warranty.

Features

- 135-Channel Range 54-860 MHz (CATV 2-135)
- >45dBmV min adjustable output for optimum carrier-to-noise performance
- Compatible with most manufacturers’ mini-modulator chassis
- State-of-the-art digital phase locked loop (PLL) design guarantees precise frequency locking for solid drift-free operation
- Microprocessor control enables quick digital push-button channel selection for ease of installation, configuration and improved system uptime
- SAW (surface acoustic wave), filtered for superior adjacent channel performance, enables drop-in channel expansion
- In-band carrier-to-noise ratio >65dB ensures superior picture quality
- Automatic selection of aeronautical offsets (12.5kHz, 25kHz) for trouble-free configuration
- Front panel access to controls enables easy setup



Specifications

RF		S/N	60dB typical
Frequency Range	NTSC 54 to 860 MHz	Differential Phase	< 5°
Output Level	+45 dBmV (minimum – 15dB adjustment range)	Differential Gain:	< 5%
Output Impedance	75Ω		
A / V Ratio	12/16dB(±2dB) select below visual carrier level		
VISUAL CARRIER		GENERAL	
Frequency Tolerance	±5KHz 4.5MHz Aural Inter	Power Requirement	+5W maximum
FCC Offset		DC Power Input	+12V 180 mA maximum +5 V 570 mA maximum
(Pre-programmed)	0, +12.5 or 25KHz	Operating Temperature	0°C to + 40 °C ambient
Aural Carrier Frequency	Offset from visual carrier: 4.5MHz Accuracy settable to: ±200HZ	Size	1"W * 3.5"H * 7.5" D *
		Weight	10.7 oz. (0.3 Kg)
Spurious Outputs	-60 dBc typical, -55dBc Min. measured at 16 dB A/V ratio and with Modulator output level of + 45 dBmV	Related Products	
C/N	60dB typical(4MHz bandwidth)	MOR-CS	Headend Cooling System
Channels	TV/CATV(STD)	MPC-12	12-Slot Universal Mini-Mod Chassis and Power Supply
AUDIO		MPC-12R	Universal Chassis & Hot-Swappable Redundant Power Supply
Input Level	1.0Vp-p. for ±25KHz Dev. manual gain adjust with front panel	PHC-12G	1GHz Broadband Passive Headend 12 Channel Combiner
Input Impedance	Greater than 10K Ohms, unbalanced	PHC-24G	1GHz Broadband Passive Headend 24 Channel Combiner
L/R Audio Frequency		Ordering Information	
Response	±1dB (50Hz to 10KHz)	MMA860S	Universal Chassis Stereo Agile Modulator
Total Harmonic			
Distortion	<1%		
Stereo Separation	20dB Min. @1KHz		
S/N	50dB Min.		
VIDEO			
Input Level for 87.5%			
Modulation:	1Vp-p. for 0~95% Modulation continuously adjustable manual gain adjust with front panel control		
Input Impedance	75Ω		
Frequency Response	±1dB		