



M860S

806MHz Channelized-Agile CATV Stereo A/V Modulator



- 125-Channel Range
54-806 MHz (CATV 2-125)
- 60 dBmV minimum adjustable output
for optimum carrier-to-noise performance
- Composite audio-video IF loop provides
compatibility with encoders, ghost can-
cellers, and video override applications
- Integrated BTSC stereo encoder pro-
vides high fidelity stereo without
costly add-ons
- State-of-the-art microprocessor control
digital phase-locked loop (PLL) design
guarantees precise frequency locking
for solid drift-free operation
- Audio AGL allows for accurate audio
deviation calibration for easy system
setup
- SAW filtered for superior adjacent
channel performance enables drop-in
channel expansion
- Front panel controls and test point
enable easy setup and monitoring
- Digital display provides quick
channel identification
- In-band carrier-to-noise ratio >60dB
ensures superior picture quality
- IRC and HRC offset available easy fre-
quency settings in systems using offset
channels
- Lab re-tunable within band via front
panel channel selection and minimum
output filter retuning

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The **Pico Macom M860S** is a professional re-broadcast grade microprocessor controlled phase-locked-loop synthesized single channel audio-video modulator with an integrated BTSC stereo encoder. The **M860S** provides 60dBmV minimum output from CATV channels 2 to 125 (54-806 MHz) while accommodating HRC and IRC offset frequencies. The unit is lab re-tunable within band via front panel channel selection and minimum output filter retuning. The integrated BTSC encoder enables delivery of high-fidelity stereo without the cost of a stand-alone stereo encoder. This cost-effective modulator was designed for use in heavily loaded systems requiring high stability and superior picture and stereo sound quality. Its phase locked loop frequency control, and superior SAW filtering enhances stability, minimizes adjacent channel interference and assures accurate and spurious free output. Superior out-of-band carrier-to-noise performance is achieved through band-pass filtering at the output amplifier. The modulator is shipped with all internal adjustments preset. FCC Docket 21006 offsets are standard. **Pico Macom** backs up this product with its industry leading 5-year limited warranty.

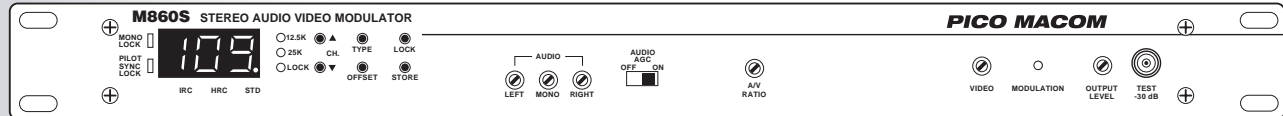
Order From:



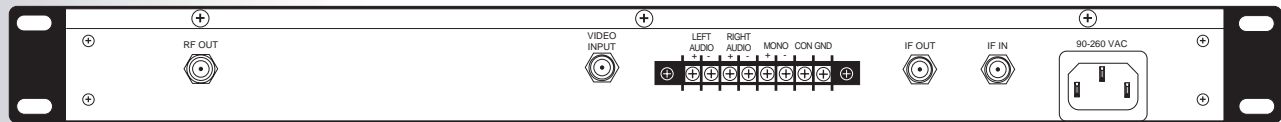
Toll Free: 800-423-2594
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Front View



Rear View

RF

Channels:	125 channels (CATV 2-125)
Frequency Range:	54-806 MHz
Output Level:	60 dBV min., 62 dBmV typ., adjustable from front panel
Output Impedance:	75 ohms
Output Return Loss:	-15 dB
Audio/Video Ratio:	Adjustable -7 to -22 dB below video carrier
Frequency Stability:	±5 kHz in aeronautical band
Spurious Output:	-60 dB below video carrier with A/V ratio @ -15 dB
C/N (In-Band):	>60 dB
C/N (Out-of-Band):	>65 dB
Fv+6 MHz (Upper Adj. Reject):	>60 dBc
Fv-1.5 MHz (Lower Adj. Reject):	>60 dBc
I.F Frequency:	Video 45.75 MHz
	Audio 41.25 MHz

Audio

Frequency Response:	Stereo ±0.5 dB @ 50 Hz to 15 kHz
	Mono ±0.4 dB @ 50 Hz to 15 kHz
Harmonic Distortion:	Stereo 1% @ 50 Hz to 15 kHz
	Mono 0.5% @ 50 Hz to 15 kHz
Pre-Emphasis:	75 microseconds
Signal to Noise Ratio:	Stereo 63 dB
	Mono 60 dB
Stereo Separation:	30 dB

Video

Input Level:	1.0 V p-p for 87.5% mod.
Input Type:	Clamped video neg. sync
Frequency Response:	±0.8 dB, 30 Hz to 4.2 MHz
Differential Gain:	<5% (10 to 90% APL)
Differential Phase:	<5° (10 to 90% APL)
Chrominance luminance delay:	*See note
Hum and Noise:	-60 dB @ 87.5% modulation
Video Signal to Noise:	-60 dB min (weighted)
Input Level Range:	0.5 V p-p to 1.5 V p-p

*NOTE: Meets FCC group delay predistortion correction requirements for color transmission.

General

Power Input:	Switching 90-260 VAC
Operating Temperature:	-10°C to 50°C
Dimensions:	19"(L) x 12"(D) x 1 3/4"(H)
Weight:	7.8 lbs.
Connectors:	RF & Video "F" type
	Audio Terminal strip (600 Ohms balanced)

Ordering Information

M860S - Specify CATV or UHF

Order From:



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 www.multicominc.com
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