



AM series is a family of frequency-agile analog audio/video modulators. AM-60-860, the flag-ship model, is available in NTSC channels 2-135 (54-860 MHz), and the PAL B, G, and I channels in the same frequency range.

More economical models are available in NTSC for the frequency ranges 54-550 MHz, or 54-806 MHz. EAS (Emergency Alert System) is standard on all models. Stereo Audio, SAP (Secondary Audio Programming), and several other optional features are also available.

Baseband Audio/Video



Modulated ANALOG RF

ORDERING INFORMATION

Model	Stock #	Description
AM-60-860	59415A	Frequency-agile Audio/Video Modulator, +60 dBmV, 54-860 MHz (NTSC)
AM-60-860-BG	B59415A	Frequency-agile Audio/Video Modulator, +120 dBμV, 47-860 MHz (PAL)
AM-60-806	59419	Frequency-agile Audio/Video Modulator, +60 dBmV, 54-806 MHz (NTSC)
AM-60-550	59416	Frequency-agile Audio/Video Modulator, +60 dBmV, 54-550 MHz (NTSC)
AM-45-550	59404	Frequency-agile Audio/Video Modulator, +45 dBmV, 54-550 MHz (NTSC)

OPTIONS

AM-OPT-02	BNC Video Input Connector
AM-OPT-04	Sub-Band Output (Available with AM-60-550 only)
AM-OPT-05	Integrated BTSC Stereo Audio
AM-OPT-06	SAP Audio/ BTSC Stereo (Available with AM-60-860 only)
AM-OPT-07	Video AGC
AM-OPT-08	Audio AGC
AM-OPT-09	Balanced Audio Input, 600 Ohm (Standard on AM-60-860)

RELATED PRODUCTS

Model	Description
AMCM	Frequency-agile Audio/Video modulator, +45 dBmV, 54-860 MHz (NTSC & PAL), Twelve modulators in 2RU
ACM	Frequency-agile Audio/Video modulator, +45 dBmV, 54-806 MHz (NTSC only), Twelve modulators in 2RU
CAMS	Fixed-channel Audio/Video modulator, +60 dBmV, 54-860 MHz (NTSC only), 1RU
MAVM	Fixed-channel Audio/Video modulator, +60 dBmV, 54-860 MHz (NTSC only), 1RU
MICM	Fixed-channel Audio/Video modulator, +45 dBmV, 54-806 MHz (NTSC & PAL), Twelve modulators in 2RU

SPECIFICATIONS

Input

Connector Impedance: Return Loss: Video Input Level	Standard: "F" Female Option 2: BNC Female 75 Ω 18 dB Standard: 0.7 volt Peak-to-Peak (87.5% depth of modulation) Option 7 (Video AGC): 0.4 to 2.5 volts Peak-to-Peak (87.5% ±2.5% depth of modulation) Video-to-RMS Hum Ratio: 65 dB Peak-to-Peak Signal-to-Noise Ratio: 58 dB (Weighted; at 4MHz bandwidth) Differential Gain: 2.0% Differential Phase: 1.0 degree Over-modulation Indicator: 87 to 92% Chrominance/Luminance Delay: Per FCC Requirements
Mono Audio (Standard) Connector AM-60-860 Model: All other Models: Option 9 (Balanced Audio Input): Input Impedance AM-60-860 Model: All other Models: Option 9 (Balanced Audio Input): Input Level Standard: Option 8 (Audio AGC): Frequency Range: Frequency Response: Total Harmonic Distortion: Signal-to-Noise Ratio: Over-modulation Threshold:	Terminal Strip RCA Terminal Strip 600 Ω, balanced Greater than 10 kΩ, unbalanced 600 Ω, balanced 0.5 to 4.0 volt Peak-to-Peak 0.5 to 4.0 volt Peak-to-Peak (constant 25 kHz deviation) 50 Hz to 15 kHz ± 0.5 dB 1% @ 25 kHz deviation 59 dB 25 ± 2 kHz peak deviation
Stereo Audio (Option 5) Connector AM-60-860 Model: All other Models: Input Impedance AM-60-860 Model: All other Models: Input Sensitivity Standard: Option 8 (Audio AGC): Frequency Response: Separation: Harmonic Distortion:	Terminal Strip RCA 600 Ω, balanced Greater than 10 kΩ, unbalanced 1.0 volt Peak-to-Peak (55 kHz peak deviation with pilot tone) 0.5 to 4.0 volt Peak-to-Peak (constant 55 kHz deviation with pilot tone) ±0.75 dB (50 Hz to 14 kHz) 20 dB (50 Hz to 10 kHz) Less than 1% (@ 1kHz)
SAP Audio (Option 6) Connector: Input Impedance: Input Level: Frequency Range: Frequency Response: Total Harmonic Distortion: Signal-to-Noise Ratio: Over-modulation Threshold:	Includes Stereo Audio (Option 5) RCA Greater than 10 kΩ, unbalanced 0.5 to 4.0 volt Peak-to-Peak 50 Hz to 10 KHz ±2 dB 1% 80 dB 25 ±1 kHz peak deviation

Output

Connector: Impedance: Return Loss: Frequency Range AM-60-860 Model: AM-60-806 Model: AM-60-550 & AM-45-550 Models: Option 4 (Sub-band): NTSC Channel Modes: Power Level AM-45-550 Model: All other Models: Power Level Range AM-45-550 Model: All other Models: Video Flatness: Carrier-to-Noise: (In Channel) Broadband Noise: (4 MHz bandwidth) Spurious Outputs: Aural/Visual Carrier Ratio: 4.5 MHz Aural Inter-carrier Freq. Tolerance: Channel Selectivity Adjacent Aural & Below: Adjacent Picture & Above: Visual Carrier Frequency Tolerance Standard Channels: FCC Aeronautical Channels:	"F" Female 75 Ω 12 dB 54 to 860 MHz (NTSC CATV Ch. 2 -135) 54 to 806 MHz (NTSC CATV Ch. 2 -125) 54 to 550 MHz (NTSC CATV Ch. 2 -78 & 95-99) 7 to 550 MHz (NTSC CATV Ch. T7 -78 & 95-99) UHF, VHF, CATV (Standard, HRC, IRC) +45 dBmV +60 dBmV +35 to +45 dBmV (in 0.2 dB increments) +50 to +60 dBmV (in 0.2 dB increments) fv-0.5 to fv+4.2 MHz (1.0 dB Peak-to-Valley) 63 dB -77 dBc (@ +45/60 dBmV output level) -63 dBc -15 ±5 dB ±150 Hz; 32 to 122 °F (0 to 50 °C) -40 dB -40 ±5 dB ±5.0 kHz; 32 to 122 °F (0 to 50 °C) ±2.5 kHz; 32 to 122 °F (0 to 50 °C)
IF (Intermediate Frequency) Input/Output Connector: Aural Frequency: Visual Frequency: Composite IF Output Aural Carrier Level: Visual Carrier Level: Input/Output Impedance: Input/Output Return Loss: EAS/Alternative IF Connector: Input Level: Switch Isolation:	"F" Female / "F" Female 41.25 MHz 45.75 MHz +20 dBmV +35 dBmV 75 Ω 16/15 dB "F" Female +38 dBmV @ 45.75 MHz Greater than 60 dB

General

Dimensions (W x D x H):	19.0 x 14.25 x 1.75 in. (483 x 362 x 44 mm)
Power:	117 VAC ±10%; 60Hz (Fuse: 0.40 Amp) Also available in 220 VAC; 50Hz
Power Dissipation:	28 W (max)
Weight:	7 lbs (3.18 kg)
Operating Temperature:	32 to 122 °F (0 to 50 °C)
Storage Temperature:	-13 to 158 °F (-25 to 70 °C)
Operating Humidity:	0 to 95% RH @ 35 °C max, non-condensing
Storage Humidity:	0 to 95% RH @ 35 °C max, non-condensing

Alarms/Monitoring/Control

Front-Panel Indicators Channel / Mode / RF Output: Video Over-modulation: Audio Over-modulation: SAP Audio Over-modulation: EAS/Alternative IF: Stereo: Front-Panel Controls Channel / Mode /RF Output: Video Level: Audio Level: Aural Carrier Level: SAP Audio Level:	3-Digit LED Display Red LED Red LED Red LED Red LED Green LED Navigation Key-pad Potentiometer Potentiometer Potentiometer Potentiometer
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