

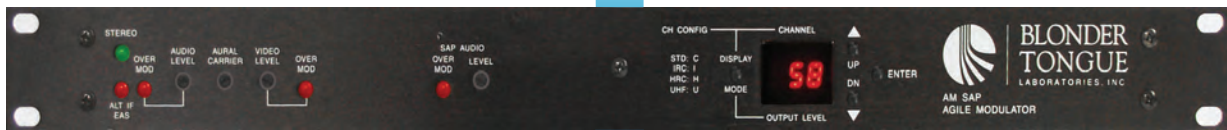
AM-60-860-SAP

**AGILE MODULATOR,
1X BASEBAND > 1X ANALOG RF**

The AM-60-860 SAP Stereo/SAP Agile Modulator is an analog audio/video modulator equipped with a stereo primary audio and a SAP (Secondary Audio Program) input.

An Emergency Alert System (EAS) or alternate IF (Intermediate Frequency) input is also provided. The modulator provides audio and video modulated RF carriers on any NTSC CATV, VHF or UHF channel in the frequency range from 54 to 860 MHz. The unit is compatible with any standard audio/video source such as satellite receivers, television cameras, video tape recorders, or television demodulators.

BASEBAND AUDIO/VIDEO
MAIN AUDIO (STEREO OR MAIN)
SECONDARY AUDIO (SAP)



MODULATED
ANALOG RF (NTSC)

FEATURES

- Fully integrated Stereo + SAP Audio Generators
- Supports All Broadcast and CATV Channels, including All HRC and IRC Assignments
- EAS/ALT IF Ready via Manual or Automatic Mode
- Superior Broadband Noise Performance (-76 dB)
- All Level Controls are Conveniently Located on Front Panel for Easy Set Up and Adjustment
- Easy to use Push Button LED Display with Microprocessor Control for Channel & RF Level Control
- Balanced Main Audio Inputs

ORDERING INFORMATION

Model	Stock #	Description
AM-60-860 SAP	59415A 6	860 MHz Agile Modulator with SAP and Stereo Audio Inputs

RELATED PRODUCTS

Model	Description
AM-45-550	Agile Audio/Video Modulator, +45 dBmV, 54-550 MHz
AM-60-550	Agile Audio/Video Modulator, +60 dBmV, 54-550 MHz
AM-60-806	Agile Audio/Video Modulator, +60 dBmV, 54-806 MHz
AM-60-860	Agile Audio/Video Modulator, +60 dBmV, 54-860 MHz
AMCM-860B	Modular Agile Audio/Video Modulator, +45 dBmV, 54-860 MHz
AMM-806	Modular Agile Audio/Video Modulator, +45 dBmV, 54-806 MHz
CAMS-60	Channelized Agile Stereo Compatible Audio/Video Modulator, +60 dBmV, 54-860 MHz
MAVM-60-861	Channelized Agile Audio/Video Modulator, +60 dBmV, 54-860 MHz
MAVM-861	Channelized Agile Audio/Video Modulator, +40 dBmV, 54-860 MHz
MICM-45C	Modular Channelized Audio/Video Modulator, +45 dBmV, 54-860 MHz

SPECIFICATIONS

Video Input

Connector:	"F" Female
Input Level:	1.0 volt Peak-to-Peak (87.5% depth of modulation)
Frequency Response:	1.5 dB Peak-to-Valley (fv-0.5 to fv+4.2 MHz)
Video-to-RMS Hum Ratio:	65 dB Peak-to-Peak
Signal-to-Noise Ratio:	58 dB (Weighted; at 4 MHz bandwidth)
Differential Gain:	2.0% (87.5% depth of modulation)
Differential Phase:	1.0 degree (87.5% depth of modulation)
Over-modulation Indicator:	87.5% \pm 2.5%
Chrominance/Luminance Delay:	Per FCC Requirements
Impedance:	75 Ω
Return Loss:	18 dB

Main Audio Stereo Input

Connector:	Barrier Strip
Input Sensitivity:	350 mV rms for 55 kHz peak deviation (w/ pilot tone)
Frequency Response	(Decoder output Left or Right channel)
L + R (in-phase inputs):	50 Hz to 10 kHz: 0.50 dB 50 Hz to 12 kHz: 0.75 dB
L - R (out-of-phase inputs):	50 Hz to 10 kHz: 2.50 dB 50 Hz to 12 kHz: 3.50 dB
L or R (one grounded):	50 Hz to 10 kHz: 1.50 dB 50 Hz to 12 kHz: 1.75 dB
Separation:	50 Hz to 10 kHz: 20 dB
Harmonic Distortion @ 1 kHz	(Decoder output Left or Right channel)
L + R (in-phase inputs):	Less than 1%
L - R (out-of-phase inputs):	Less than 1%
L or R (one grounded):	Less than 1%

SAP Audio Input

Connector:	RCA
Input Level:	0.5 to 5.0 volt peak-to-peak
Frequency Range:	50 Hz to 10 kHz
Frequency Response:	\pm 2 dB
Total Harmonic Distortion:	1%
Signal-to-Noise Ratio:	80 dB
Over Modulation Threshold:	10 kHz, \pm 1 kHz peak deviation
Input Impedance:	Greater than 10 k Ω , unbalanced

General

Dimensions (WxDxH):	19.0 x 14.25 x 1.75 in. (483 x 362 x 44 mm)
Power:	117 VAC \pm 10%; 60 Hz (Fuse: 0.40 Amp)
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-condensation
Storage Humidity:	0 to 95% RH @ 35 °C max, non-condensation

RF Output

Connector:	"F" Female
Frequency Range:	54 to 860 MHz
NTSC Channel Modes:	UHF, VHF, CATV (Standard, HRC, & IRC)
Signal Level:	+60 dBmV
Signal Level Display Range:	+48 to +62 dBmV (in 0.2 dB increments)
Broadband Noise:	-77 dBc (@ +60 dBmV output level, 4 MHz bandwidth)
Spurious Outputs:	-63 dBc
Impedance:	75 Ω
Return Loss:	12 dB
Aural/Visual Carrier Ratio:	-15 dB \pm 5 dB
4.5 MHz Aural Inter-carrier Freq. Tolerance:	\pm 150 Hz; 32 to 122 °F (0 to 50 °C)
Channel Selectivity Adjacent Aural & Below: Adjacent Picture & Above:	-40 dB -40 dB \pm 5 dB
Visual Carrier Freq. Tolerance Standard Channels: FCC Aeronautical Channels:	\pm 20 kHz; 32 to 122 °F (0 to 50 °C) \pm 5 kHz; 32 to 122 °F (0 to 50 °C)

IF (Intermediate Frequency)

Input/Output Connector:	"F" Female / "F" Female
Aural Frequency:	41.25 MHz
Visual Frequency:	45.75 MHz
Composite IF Output Aural Carrier Level: Visual Carrier Level:	+20 dBmV +35 dBmV
Input/Output Impedance:	75/75 Ω
Input/Output Return Loss:	16/15 dB
EAS/Alternative IF Connector: Input Level: Switch Isolation:	"F" Female +38 dBmV @ 45.75 MHz Greater than 60 dB

Monitoring/Indicators

Channel / Mode / RF Output:	Front-panel; 3-Digit LED Display
Video Overmodulation:	Front-panel; Red LED
Audio Overmodulation:	Front-panel; Red LED
SAP Audio Overmodulation:	Front-panel; Red LED
EAS/Alternative IF:	Front-panel; Red LED
Stereo:	Front-panel; Green LED

Controls

Channel / Mode / RF Output:	Front-panel; Key-pad
Video Level:	Front-panel; Potentiometer
Audio Level:	Front-panel; Potentiometer
Aural Carrier Level:	Front-panel; Potentiometer
SAP Audio Level:	Front-panel; Potentiometer

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