

FAxM Series

Triple Channel Frequency Agile Audio/Video Modulators



○ Features & Benefits

- Rack Mountable - 1 EIA (1.75") Rack Space
- UL Listed with Three Year Product Warranty
- Supports All Broadcast and CATV Channels, Including HRC and IRC Assignments from 54 to 860 MHz
- Front Panel Accessible Level Controls for Easy Set-Up and Adjustments
- Fully Compatible With BTSC Encoded Stereo Audio

The FAxM Series is a professional quality, multiple channel agile audio/video modulator. This unit provides audio and video modulated RF carriers on any channel in the 54 to 860 MHz frequency range, using only one rack space. Any standard audio/video source can be used, such as satellite receivers, television cameras, video tape recorders, or television demodulators. Agile channel selection permits on-the-fly channel changes and reduces the need for large inventories of channelized products. Four modules are available with 2 basic distinctions. The FA3M-50-860, Stock No. 5961B, comes equipped with independent IF loops, which allows interfacing with video all-call and signal scrambling systems. IF loops are available in a triple channel configuration only. The FA1M; FA2M and FA3M, Stock No. 59711A, 59712A and 59713A respectively do not have IF loop capability.

○ Specifications

RF

Frequency Range: 54-806 MHz
Channels: CATV, VHF, UHF (STD,HRC,IRC)
FCC Offset (pre-programmed):
0, +12.5, or 25 kHz
Output Level - Combined Min: +50 dBmV
Output Level Adjust: 15 dB
Aural/Visual Carrier Ratio: -10 to -17 dB
Visual Carrier Frequency Tolerance
Standard Channels: ± 5 kHz
FCC Aeronautical Channels:
 ± 3 max kHz
4.5 MHz Aural Inter Carrier Frequency: ± 1 kHz
Channel Selectivity
Adjacent Aural and Below: -40 dB
Adjacent Picture and Above: -50 dB
Spurious Outputs: -60 dBc
C/N Ratio In Channel: 63 dB
Broadband Noise: -70 dBc
Output Impedance: 75 ohm
Output Return Loss: 12 dB

Video

Input Level: 1.0 V p-p
Frequency Response
fv-0.5 MHz to fv+4.2 MHz: ± 1.0 dB
P-P Video to RMS Hum Ratio: 65 dB
Video Signal-to-Noise Ratio,
NTC-7 Weighted: 62 dB
Differential Gain: 2.0 %
Differential Phase: 1.0 °
Over Modulation Indicator: 87.5, ± 2.5 %
Input Impedance: 75 ohm
Input Return Loss: 24 dB, min

Audio

Input Level: 140 mV RMS
Ext. 4.5 MHz Input Level: 40 ± 1 dBmV
Frequency Range: 20 Hz to 20 kHz

Pre-Emphasis-Mono: 75 μ s
Frequency Response: ± 1.0 dB
IF Pre-Emphasis Defeated: +0.5 dB
Audio Signal-to-Noise: 58 dB
Total Harmonic Distortion: 0.6 %
Over Modulation Indicator : 25, ± 2 kHz
Input Impedance: Greater than 10 K Ω ,
Unbalanced

General

Power Requirements: 110 VAC to 260 VAC
Frequency: 47 to 63 Hz
Temperature Range: 0° to +50° C
AC Current: 0.32 Amp for 115 VAC
Output Voltage: +12 VDC, +5 VDC
Max Current Output/Voltage: 0.7 Amp

Mechanical

Dimensions (WxHxD): 19 x 1.75 x 14.25 in
Weight: 7 lbs (approx)

Connectors (Rear Panel)

Video Input: "F" Type, Female
Audio Input: RCA Phono
RF Output: "F" Type, Female

Connectors (Front Panel)

Frequency Selection: Push-Button Switches
Video Level: Control
A/V Ratio: Control
Audio Level: Control
RF Output Level: Control
Channel Enter: Push-Button

Indicators (Front Panel)

Power ON/Status: 2 Color, LED, Red/Green
Video Over Modulation: LED, Red
Audio Over Modulation: LED, Red

Refer to product instruction manual for additional specification measurements and notes.

○ Ordering Information

Model	Stock No.	Description
FA3M-50-860-IF	5961B	Frequency Agile Modulator, Triple Channel Unit Agile Output 54-860 MHz, With Independent IF Loops
FA3M-50-860	59713A	Frequency Agile Modulator, Triple Channel Unit Agile Output 54-860 MHz, STD CATV, HRC, IRC, +50 dBmV
FA2M-50-860	59712A	Frequency Agile Modulator, Double Channel Unit Agile Output 54-860 MHz, STD CATV, HRC, IRC, +50 dBmV
FA1M-50-860	59711A	Frequency Agile Modulator, Single Channel Unit Agile Output 54-860 MHz, STD CATV, HRC, IRC, +50 dBmV
AMCM-860H	7766HA	Modular Agile Audio/Video Modulator (MIRC-4 Series) +45 dBmV, 54-860 MHz Agile

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