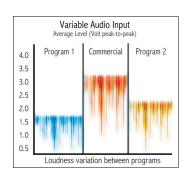


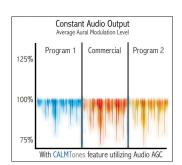
## **AMCM-860** AGILE MICRO CHANNEL MODULATOR

AMCM-860 is a frequency-agile analog audio/video modulator available in NTSC channels 2-135 (54-860 MHz). Models are available in both stereo and mono audio inputs.

This 4th generation of AMCM-860 is equipped with the CALMTones feature, utilizing Audio ACC (Automatic Gain Control) circuitry that eliminates variations in loudness level that may be present among various program sources.





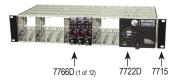


#### **Features**

- Audio ACC feature prohibits commercials that accompany broadcast programs from:
  - (i) having modulation levels substantially higher than the broadcast program; and
  - (ii) having an average maximum loudness substantially higher than that of the broadcast program.
- Audio ACC feature provides consistent audio level among all broadcast programs on different channels and among different programs within the same channel
- Compact design allows for deployment of 12 channels in 2RU
- Utilizes SAW filters for improved performance
- · Die-cast chassis for RFI immunity

#### Ordering Information

Model	Stock #	Description
AMCM860D	7766D	Modular-Agile Audio/Video Modulator, +45 dBmV
AMCM860DS	7766DS	Modular-Agile Audio/Video Modulator, Stereo, +45 dBmV
MIRC-12V	7715	Horizontal Rack Chassis (Holds up to 12 modulators)
MIPS-12D	7722D	Horizontal 100-240 VAC 50/60 Hz Power Supply (1 per chassis)
MIRC4D	7711	Horizontal Rack Chassis equipped with Power Supply





**Revision Control:** 110614 (651204600J)





## **Specifications**

### INPUT

-	
Video Connector: Impedance: Return Loss: Input Level: Frequency Response: Peakto-Peak Video-to-RVS Hum Ratio: Signal-to-Noise Ratio:	"F" Female 75 Ω 24 dB 1.0 volt peak-to-peak (87.5% depth of modulation) 1.0 dB peak-to-valley (fv to fv+4.2 MHz) 65 dB 62 dB (Weighted; 4 MHz bandwidth)
Differential Gain:	2.0% (87.5% depth of modulation)
Differential Phase:	1.0 degree (87.5% depth of modulation)
Chrominance/Luminance Delay:	Per FCC Requirements
Mono Audio(standard) Connector: Input Impedance: Input Level:(for 25 KHz deviation) Frequency Range: Frequency Response: Total Harmonic Distortion: Signal-to-Noise Ratio:	RCA Greater than 10 kΩ, unbalanced 0.5 - 4.0 volt peak-to-peak (constant AC range) 50 Hz to 15 kHz ± 1 dB 1% @ 25 kHz deviation 66 dB
Stereo Audio (optional) Connector: Input Impedance: Input Sensitivity:(for 55 kHz peak deviation) Frequency Response: Separation:	RCA Greater than 10 kΩ, unbalanced 0.5 - 4.0 volt peak-to-peak (ACC range with pilot tone) ± 0.75 dB (50 Hz to 12 kHz) 20 dB @ 50 Hz to 10 kHz

# OUTPUT Connector:

Connector:	"F" Female
Impedance:	75 Ω
Return Loss:	12 dB
Frequency Range:	54 to 860 MHz (NTSC CATV Ch. 2 -135)
Power Level:	+45 dBmV
Power Level Range:	10 dB continuously adjustable
Carrier-to-Noise:(In Channel)	63 dB
Broadband Noise:	-75 dBc (@ +45 dBmV output level, 4 MHz bandwidth)
Spurious Outputs:	-60 dBc
Aural/Visual Carrier Ratio:	-11 to -19 dB continuously adjustable
4.5 MHz Aural Inter-carrier Freq. Tolerance:	±150 Hz; 77 °F (25 °C)
Visual Carrier Frequency Tolerance	
Standard Channels:	±10 kHz; 32 to 122 °F (0 to 50 °C)
FOC Aeronautical Channels:	±5 kHz; 32 to 122 °F (0 to 50 °C)

#### General

Dimensions (W x D x H)  AWDM Modules:  MIPS-12C Power Supply:  MIRC-12V Chassis:  MIRC-4D Chassis:	1.0 x 7.78 x 3.5 inches (25 x 198 x 89 mm) 4.6 x 7.5 x 3.5 inches (106 x 191 x 89 mm) 19 x 12.0 x 5.25 inches (483 x 305 x 133 mm) 19 x 9.0 x 1.75 inches (483 x 229 x 44 mm)
Power MIPS-12C Power Supply: MIRC-4D Power Supply:	100-240 VAC; 50/60 Hz 100-240 VAC; 50/60 Hz
Power Dissipation:	~ 5 W(max. per AMOM Module)
Weight  AVOM Module: Fully Loaded Chassis:	0.8 lbs (0.36 kg) 15.8 lbs (7.2 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 ℃ max, non-condensing

#### Alarms/Monitoring/Control

	Front-Panel Indicator	
l	Channel No. & Mode:	2-Digit Red LED Display
	+100 channel:	Red LED
	Video Over-modulation:	Red LED
	Audio Over-modulation	Red LED
	Stereo:	Green LED
	Front-Panel Controls	
	Output Level:	Potentiometer
	Video Level:	Potentiometer
	Audio Level:	
	Aural Carrier Level:	Potentiometer

#### Related Products

Model	Description
AM-60-860	Frequency-agile Audio/Video modulator, +60 dBmV, 54-860 MHz, 1RU
ACM	Frequency-agile Audio/Video modulator, +45 dBmV, 54-806 MHz, Twelve modulators in 2RU
MICM	Fixed-channel Audio/Video modulator, +45 dBmV, 54-860 MHz, Twelve modulators in 2RU

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