



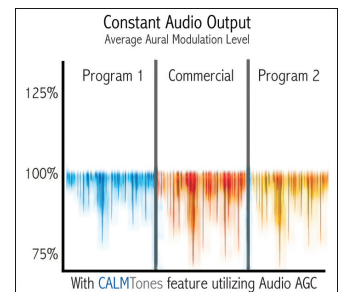
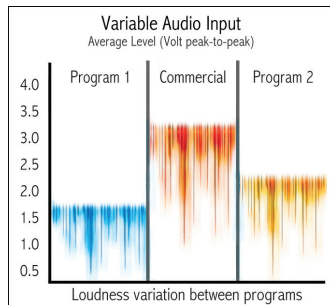
**BLONDER
TONGUE**
LABORATORIES, INC.

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 AGC (Automatic Gain Control) circuitry that eliminates variations in loudness level that may be present among various program sources.

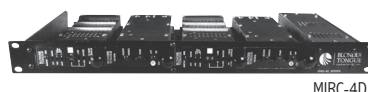


FEATURES

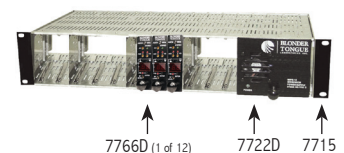
- Audio AGC feature prohibits commercials that accompany broadcast programs from:
 - (i) having modulation levels substantially higher than the broadcast program; and
 - (ii) having an average maximum loudness substantially higher than that of the broadcast program.
- Audio AGC feature provides consistent 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
AMCM-860D	7766D	Modular-Agile Audio/Video Modulator, +45 dBmV
AMCM-860DS	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)
MIRC-4D	7711	Horizontal Rack Chassis equipped with Power Supply



MIRC-4D



7766D (1 of 12)

7722D

7715

SPECIFICATIONS

INPUT

Video Connector: Impedance: Return Loss: Input Level: Frequency Response: Peak-to-Peak Video-to-RMS Hum Ratio: Signal-to-Noise Ratio: Differential Gain: Differential Phase: Chrominance/Luminance Delay:	"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) 2.0% (87.5% depth of modulation) 1.0 degree (87.5% depth of modulation) 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 k Ω , unbalanced 0.5 - 4.0 volt peak-to-peak (constant AGC range) 50 Hz to 15 kHz $\pm$ 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 k Ω , unbalanced 0.5 - 4.0 volt peak-to-peak (AGC range with pilot tone) $\pm$ 0.75 dB (50 Hz to 12 kHz) 20 dB @ 50 Hz to 10 kHz

OUTPUT

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

Dimensions (W x D x H) AMCM 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:	$\sim$ 5 W (max. per AMCM Module)
Weight AMCM Module: Fully Loaded Chassis:	0.8 lbs (0.36 kg) 15.8 lbs (7.2 kg)
Operating Temperature:	32 to 122 $^{\circ}$ F (0 to 50 $^{\circ}$ C)
Storage Temperature:	-13 to 158 $^{\circ}$ F (-25 to 70 $^{\circ}$ C)
Operating Humidity:	0 to 95% RH @ 35 $^{\circ}$ C max, non-condensing
Storage Humidity:	0 to 95% RH @ 35 $^{\circ}$ C max, non-condensing

ALARMS/MONITORING/CONTROL

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