

Macom Professional Series

A860 Agile Modulator Integrated BTSC Stereo (option)



- Re-broadcast quality performance specifications match those of fixed channel modulators
- Integrated BTSC Stereo (optional)
- 60dBmV minimum output for optimum carrier-to-noise performance
- Precision SAW filter for superior adjacent channel performance enables drop-in channel expansion
- State-of-the-art digital phase-locked loop (PLL) design guarantees precise frequency locking for solid drift-free operation
- Superior design including automatic band-splitting filters for excellent carrier-to-noise ratio (>65dB)
- Bright LED bar graph provides simple modulation set-up
- Microprocessor tuning control provides digital display with push-button channel selection for ease of installation, configuration and servicing
- Rear panel interfaces accept baseband video and three audio formats to provide maximum installation flexibility
- Composite and separate audio and video IF loops allow compatibility with encoders, ghost cancellers and video override applications
- MPX stereo loop provides encoded stereo input and compatibility with Emergency Alert equipment
- IRC and HRC input and output offset available for frequency setting in systems using offset channels



Specifications

RF OUTPUT

Frequency Range	54-860MHz	Differential Gain	<2% typ
Channels	CATV 2-135 / UHF 14-69	Differential Phase	<1° typ
Level	60dBmV min	Chrom / Lumin Delay	±8 ns
Level Adjustment	20dB	Hum and Noise	-60dB
Impedance	75Ω		
Frequency Stability	±3 kHz		
Audio/Video Ratio	-10 to -20dB Adjustable		
Output Return Loss	-18dB		
In Band Spurious	-62dB		
Out of Band Spurious	-65dB		
VSB Response	-60dB min		
C/N (In-Band)	>62dBc		
C/N (Out-of-Band)	>65dBc		

IF OUTPUT

Video Level	38dBmV
Video Carrier Frequency	45.75MHz
Audio Carrier Frequency	41.25MHz
Audio Level	22dBmV
Composite Level	35dBmV
Video Stability	±3 kHz
Audio Stability	±2 kHz
Impedance	75Ω

4.5MHZ INPUT

Level	37dBmV
Impedance	75Ω

VIDEO INPUT

Level	.7-1.0 V p-p
Frequency Response	±1.0dB max
Impedance	75Ω

AUDIO INPUT

Level – Mono	0.5 V p-p – 1 V p-p
Level – Left Audio	0.5 V p-p – 1 V p-p
Level – Right Audio	0.5 V p-p – 1 V p-p
Frequency Response	±1.5dB max
Impedance	600Ω
Preemphasis	75 μs Switchable

MPX/BTSC STEREO

Level	2.2 V p-p
Impedance	500Ω
Frequency Response	1dB, 50 Hz – 14 kHz
Total Harmonic Distortion	<0.3%
S/N	75dB
Separation	35dB, 50 Hz – 12 kHz

GENERAL

Power Input	90-260 VAC, 28 W
Operating Temp.	-10°C to 50°C
Dimensions	19" (L) x 12" (D) x 1.75" (H)
Weight	7.8 lbs.
Connectors	RF & Video "F" type
Audio	600Ω Terminal Strip

Ordering Information

A860	Agile Modulator
A860S	Agile Stereo Modulator

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