

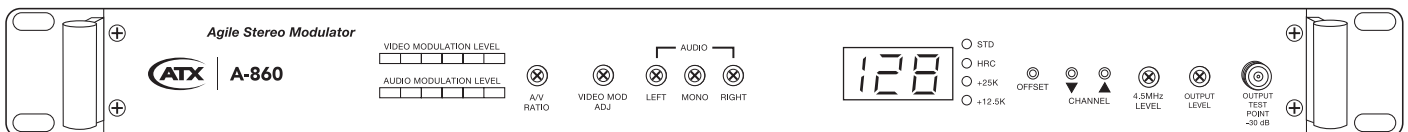
A860

Agile Modulator Integrated BTSC Stereo (Option)

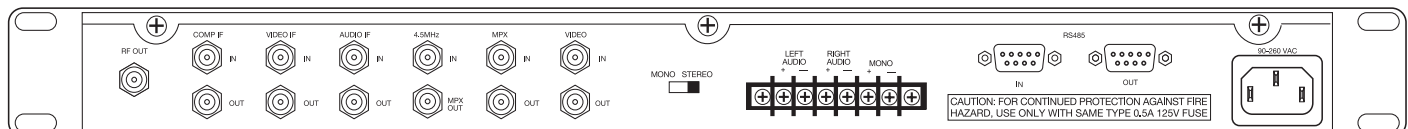


Features

- 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



Front View



Rear View

Specifications

RF OUTPUT	
FREQUENCY RANGE	54 to 860 MHz
CHANNELS	CATV 2-135 / UHF 14-69
LEVEL	60 dBmV min
LEVEL ADJUSTMENT	20 dB
IMPEDANCE	75 Ω
FREQUENCY STABILITY	±3 kHz
AUDIO/VIDEO RATIO	-10 to -20 dB Adjustable
OUTPUT RETURN LOSS	-18 dB
IN-BAND SPURIOUS	-62 dB
OUT-OF-BAND SPURIOUS	-65 dB
VSB RESPONSE	-60 dB min
C/N (IN-BAND)	> 62 dBc
C/N (OUT-OF-BAND)	> 65 dBc
IF OUTPUT	
VIDEO LEVEL	38 dBmV
VIDEO CARRIER FREQUENCY	V45.75 MHz
AUDIO CARRIER FREQUENCY	41.25 MHz
AUDIO LEVEL	22 dBmV
COMPOSITE LEVEL	35 dBmV
VIDEO STABILITY	±3 kHz
AUDIO STABILITY	±2 kHz
IMPEDANCE	75 Ω
4.5 MHZ INPUT	
LEVEL	37 dBmV
IMPEDANCE	75 Ω

VIDEO INPUT	
LEVEL	.7 to 1.0 V p-p
FREQUENCY RESPONSE	±1.0 dB max
IMPEDANCE	75 Ω
DIFFERENTIAL GAIN	< 2% typ
DIFFERENTIAL PHASE	< 1° typ
CHROM / LUMIN DELAY	±8 ns
HUM AND NOISE	-60 dB
AUDIO INPUT	
LEVEL – MONO	0.5 V p-p to 1 V p-p
LEVEL – LEFT AUDIO	0.5 V p-p to 1 V p-p
LEVEL – RIGHT AUDIO	0.5 V p-p to 1 V p-p
FREQUENCY RESPONSE	±1.5 dB max
IMPEDANCE	600 Ω
PREEMPHASIS	75 μs Switchable
MPX/BTSC STEREO (A860S)	
LEVEL	2.2 V p-p
IMPEDANCE	500 Ω
FREQUENCY RESPONSE	1 dB, 50 Hz to 14 kHz
TOTAL HARMONIC DISTORTION	< 0.3%
S/N	75 dB
SEPARATION	35 dB, 50 Hz to 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	600 Ω Terminal Strip

Ordering Information

Part Number	Description
A860	Agile Modulator
A860S	Agile Stereo Modulator

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