

F860

Fixed Modulator Integrated BTSC Stereo (option)

Features

- Re-broadcast quality performance
- Integrated BTSC Stereo (optional)
- 60dBmV minimum adjustable output for optimum carrier-to-noise performance
- Pre-emphasis defeat switch provides easy stereo conversion
- Precision SAW filter for superior adjacent channel performance enables drop-in channel expansion
- Front panel controls and test point enable ease setup and monitoring
- Digital display provides quick channels identification and easy modulation adjustment
- Carrier-to-noise ratio >65dB ensures superior picture quality
- 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	54-456MHz
CATV	2-62
Level	60dBmV min
Level Adjustment	20dB
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
C/N (In-Band)	>62dBc
C/N (Out-of-Band)	>65dBc

IF OUTPUT

Video Level	38dBmV
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	0.7 – 1.0 V p-p
Frequency Response	±1.0dB max
Impedance	75Ω
Differential Gain	<2% typ
Differential Phase	<1° typ
Chrom / Lumin Delay	±8 ns
Hum and Noise	-60dB

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
Pre-emphasis	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 Temperature	-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

F860-Channel	Fixed Modulator
F860S-Channel	Fixed Stereo Modulator