



SVM Series Frequency Agile CATV Modulator

- Re-broadcast quality performance specifications match those of fixed channel modulators
- Integrated BTSC Stereo & SAP (optional)
- 60 dBmV 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 drift-free operation
- Superior design including automatic band-splitting filters for excellent carrier-to-noise ratio >65 dB)
- Bright LED bar graph provides simple modulation set-up separate video, audio left right
- 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
- Both EIA STD and HRC frequency plans included

Specifications

RF OUTPUT

Frequency Range	54-860 MHz	Differential Phase	<1° typ
Channels	CATV 2-135	Chrom/Lumin Delay	±8 ns
Level	60 dBmV min	Hum and Noise	-60 dB
Level Adjustment	20 dB	Connector BNC	75Ω
Impedance	75 Ω F-Female		
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
Audio Level	22 dBmV
Composite Level	35 dBmV
Video Stability	±3 kHz
Audio Stability	±2 kHz
Impedance	75Ω

4.5 MHz INPUT

Level	37 dBmV
Impedance	75Ω

VIDEO INPUT

Level	.7-1.0 V p-p
Frequency Response	±1.5 dB max
Impedance	75Ω
Differential Gain	<3% typ

AUDIO INPUT

Level – Left/Mono Audio	0.5 V p-p – 1 V p-p
Level – Right Audio	0.5 V p-p – 1 V p-p
Level – SAP	0.5 V p-p – 1 V p-p
Impedance	600Ω Terminal strip
Pre-Emphasis	75 μs Switchable (mono)

BTSC STEREO

Frequency Response	1 dB, 50 Hz –12 kHz
Total Harmonic Distortion	<2%
S/N	60dB

SAP (Secondary Audio Program)

Frequency Response	1 dB, 50 Hz –8 kHz
Total Harmonic Distortion	<2.5%

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. - 8.2 lbs.

Ordering Information

SVM550	Frequency Agile CATV Modulator, 550MHz
SVM860	Agile Modulator, 860MHz
SVM860S	Agile Stereo Modulator, 860MHz
SVM860SAP	Agile Stereo SAP Modulator, 860MHz