

# TVM860

# TVM860S

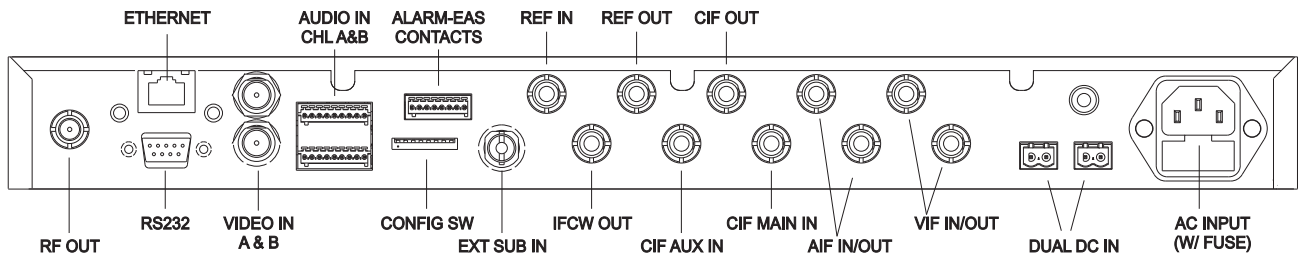
## FREQUENCY AGILE CATV MODULATOR



### Related Standard Products

- DTR400 8VSB Terrestrial Receiver
- SDR400 QPSK Satellite Receiver
- DEC400 ASI Input Decoder
- MT630 Agile IRD SC Satellite Receiver
- MT650 Agile IRDII Satellite Receiver
- Stratum II Integrated Network Modulation System
- SVM550 Agile CATV Modulator
- SVM860 Agile CATV Modulator
- SVM860S Agile Stereo Modulator
- Covers today's spectrum needs from 54-860MHz
- Integrated DSP-based BTSC stereo encoder option installed when ordered as TVM860S
- Integrated DSP-based SAP included in TVM860S
- EIA, HRC & IRC or custom frequency plans
- Multiple inputs: Two separate A & B channel video and audio inputs including left, right, SAP in TVM860S; 4.5MHz IF, Main and Aux CIF inputs
- A & B channel video and audio inputs switched automatically on video sync loss or user/remote selection
- Multiple IF loops are standard to support all scramblers
- Contact closure for EAS IF switching
- FCC offsets selectable
- External 12MHz reference input/loop to lock carrier to reduce ingress beats
- Remote monitoring and configuration by networked Ethernet SNMP or RS232

# 2 TVM860/TVM860S



## PRODUCT SPECIFICATIONS

### RF

Frequency Range	47 to 860MHz, 6MHz steps
Output Level	≤50 to 61dBmV
Output Impedance	75 Ω
Output Return Loss	≥14dB
C/N Inband (47-860MHz)	≥70dBc
C/N Nearband (Video + 25MHz)	≥70dBc, 74dBc typ.
Aggregate Noise Level (137Ch)	≥60dBc
Spurious Output, 47-860 MHz	≤-60dBc, -70dBc typ.
Flatness within a channel	≤± 1.0dBp-p
RF Frequency Accuracy	≤± 2.5 kHz
Reference input	12.000/12.006MHz, -10dBm

### VIDEO

Video input level range (for 87.5% Mod)	0.5 to 1.5 Vp-p
Video input impedance	75
Freq. response (sinx/x)	± 1.0dB
S/N (Lum weighted)	≥61dB, 62 typ.
CL Gain	5%
CL Delay	30ns
Short time distortion	≤4.0 %
Differential Gain	≤3.0 %
Differential Phase	≤2.0°
ICPM	≤3.0°

### AUDIO

Frequency Response	± 0.5dB
Input impedance all channels	600 or 10kΩ
Freq. Response (50Hz~15kHz)	± 0.5dB
Freq. Response Wide BW (50Hz~90kHz)	± 0.5dB
Signal to Noise Ratio	≥60dB
Channel Separation (TVM860S)	≥34dB
Harmonic Distortion	0.5 %
External 4.5MHz Input level	20 to 46dBmV

### GENERAL

AC Power Input voltage	90 to 240VAC
DC Power Input voltages (A or B, ref. to GND)	-48VDC, -40 to-65VDC
Size	19"W x 13"D x 1.75"H

Specifications subject to change without notice. For the latest information go to [www.standardcom.com](http://www.standardcom.com)