

CT-SAMM

User Manual



Specifications

Video		RF	
Min Input Level	0.8Vp-p (87.5% Modulation)	Output Channels	CATV 2 -135, UHF 14 – 78
Video C/N	60dB	Output Level	45dBmV (min.)
Frequency Response	±1.5dB (30Hz to 4.2 MHz)	Level Control Range	12 dBmV (Adjustable)
Differential Gain	< ±5%	A/V Ratio Control	-11 dB to -18 dB (Adjustable)
Differential Phase	< ±5 deg.	Visual Frequency Stability	±5 KHz
Group Delay	75 ns	Aural Carrier Offset	±4.5 MHz
Hum Ratio	-60dB	Aural Carrier Stability	±5 KHz
Audio		Spurious Outputs	-60dBc
Input Level	0.5Vp-p (25 KHz Deviation)	C/N Ratio (in-band)	-60dB
Input Impedance	10 K OHMS	Out-of-Band Noise	-78dBc
Frequency Response	±1dB (50 HZ to 15KHz)		
Distortion	1%		
Pre-Emphasis	75 μs (Switchable)		
General			
Dimensions:	0.98" x 3.50" x 8.46" (24.8 x 88.9 x 214.8mm)		
Weight	0.83 lbs (0.38 kg)		
Warranty	1 year Can be extended to 3 years		

Installation Instruction:

Step 1

Install the CT-SAMM modulator into its corresponding rack chassis. Be sure to align the module using the rack chassis guides to ensure the CT-SAMM is properly seated for grounding.

Step 2

Connect the 3-pin power plug from the power supply harness to the power jack in the rear of the CT-SAMM modulator. Only use the wiring harness that is for your power supply. Using a non-compliant wiring harness will void the warranty.

Step 3

Allow at least 15 minutes for the modulator to reach a stable operating temperature and stable output. Do not attempt to adjust before the warm up period since the modulator output will change as the unit comes to the operating temperature.

Step 4

If needed, toggle the CATV/VHF UHF switch to select between cable TV and off-air channel assignment.

Step 5

Select the desired channel by pressing either channel button adjacent to the arrows on front panel. If the channel exceeds 100, The LED light will be on at the "+100 " mark.

Step 6

When the desired channel is displayed, press the set button to lock channel and the LED light will be on at the "LOCK " mark.

Step 7

Connect an RF signal meter using dBmV or an RF spectrum analyzer to the "RF OUT" port of the CT-SAMM to balance and ensure the desired RF output level.

Step 8

Set the audio carrier level 15 to 17 dBmV below the video carrier level by adjusting the “A/V” potentiometer.

Step 9

Connect baseband video and audio signals to the corresponding “VIDEO IN” and “AUDIO IN” input ports of CT-SAMM, respectively.

Step 10

Connect “RF OUT” port of CT-SAMM to monitor or television to verify video and audio. Tune the TV or set top box to the modulator’s RF output channel to view on screen. Note the output of the CT-SAMM is a CATV band analog signal, and not a digital signal. Ensure the tuning device is properly configured for analog CATV signals.

Step 11

Adjust the sound on the television to an acceptable average volume on your TV using the “Audio” potentiometer on the face of the CT-SAMM. Turn on the Audio Pre-Emphasis if noise is prevalent in the higher frequency audio signals. A precision demodulator and audio dB meter is recommended for this setting.

Step 12

Set the video modulation picture intensity by adjusting the “Video” potentiometer on the face of the CT-SAMM. A precision demodulator and waveform monitor are recommended for this setting.

Step 13

Connect the “RF OUT” port of the CT-SAMM to a combiner input on the head-end.



CABLETRONIX 1-Year Limited Warranty

CABLETRONIX. (the "Company") warrants to the Original Purchaser that the item purchased is free from defects in workmanship or material under normal use. This warranty starts on the date of shipment of the hardware to the Original Purchaser.

During the warranty period, the Company agrees to repair or replace, at its sole option, without charge to Original Purchaser, any defective component. To obtain service, the Original Purchaser must return the item to the Company properly packaged for shipping. All defective products must be returned to the Company within thirty (30) days of failure. Products must be returned with a description of the failure and Return Merchandise Authorization (RMA) number supplied by the Company. To receive a RMA number and a return shipping address on where to deliver the hardware, call 610-429-1821. The shipping, and insurance charges incurred in shipping to the Company will be paid by Original Purchaser, and all risk for the hardware shall remain with the Original Purchaser until such time as Company takes receipt of the hardware. Upon receipt, the Company will promptly repair or replace the defective unit, and then return said unit to Original Purchaser, shipping prepaid. The Company may use reconditioned or like-new parts or units, at its sole option, when repairing any hardware. Repaired products shall carry the same amount of outstanding warranty as from original purchase. Any claim under the warranty must include dated proof of purchase or invoice. In any event, the Company's liability for defective hardware is limited to repairing or replacing the hardware.

This warranty is contingent upon proper use of the hardware by Original Purchaser and does not cover: if damage is due to Acts of God (including fire, flood, earthquake, storm, hurricane or other natural disaster), accident, unusual physical, electrical, or electromechanical stress, modifications, neglect, misuse, operation with media not approved by the Company, tampering with or altering of the hardware, riot, war, invasion, act of foreign enemies, hostilities (regardless of whether war is declared), civil war, rebellion, revolution, insurrection, military or usurped power or confiscation, terrorist activities, nationalization, government sanction, blockage,

embargo, labor dispute, strike, lockout or interruption or failure of electricity, air conditioning, or humidity control, internet, network, or telephone service

The warranties given herein, together with any implied warranties covering the hardware, including any warranties of merchantability or fitness for a particular purpose, are limited in duration to one year from the date of shipment to the Original Purchaser. Jurisdictions vary with regard to the enforceability of warranty limitations, and you should check the laws of your local jurisdiction to find out whether the above limitation applies to you.



The Company shall not be liable to you for loss of data, loss of profits, lost savings, special, incidental, consequential, indirect, or other similar damages arising from breach of warranty, breach of contract, negligence, or other legal action even if the Company or its agent has been advised of the possibility of such damages, or for any claim brought against you by another party. Jurisdictions vary with regard to the enforceability of provisions excluding or limiting liability for incidental or consequential damages. You should check the laws of your local jurisdiction to find out whether the above exclusion applies to you.

This warranty allocates risks of product failure between Original Purchaser and the Company. The Company's hardware pricing reflects this allocation of risk and the limitations of liability contained in this warranty. The warranty set forth above is in lieu of all other express warranties, whether oral or written. The agents, employees, distributors, and dealers of the Company are not authorized to make modification to this warranty, or additional warranties binding on the Company. Accordingly, additional statements such as dealer advertising or presentations, whether oral or written, do not constitute warranties by the Company and should not be relied upon.

This warranty gives you specific legal rights. You may also have other rights which vary from one jurisdiction to another.