



...competitive technologies with compelling value

## CT-FMM-\*

### Fixed Channel Micro Modulator

#### Product Description

The CT-FMM is a professional quality fixed *channel* micro modulator providing an audio and video modulated RF carrier from 54 to 806 MHz on any CATV channel from 2 to 125. Any standard video source can be used, including satellite receivers, demodulators, VCRs, laser/DVD players, and TV/security cameras.

The CT-FMM employs highly stable synthesized frequency control. Setup and adjustments are easy and straightforward taking advantage of the unit's front panel access to all level controls. Channel frequency information with FCC offsets is programmed into each unit at the factory.

The CT-FMM meets or exceeds government regulatory requirements, including FCC group delay pre-distortion for color transmission, and FCC Docket 21006 aeronautical offset requirements.

#### Application

Designed for commercial grade headend systems. The CTFMM provides cable operators the engineering ease and flexibility associated with new headend deployments, existing headend upgrades, and system maintenance.

The CT-FMM modulator can be tuned in the field to any channel within a pre determined band of channels with the use of the CT-FPC tuning controller. Contact us today for a list of the channels that are in each band.

**Call For Pricing On This Product With International Video Standards.**



#### Features and Benefits

- Output frequency of 54 to 806 MHz supports all CATV channel assignments, Chs. 2-125 CATV
- Now featuring a cast housing
- Rapid headend design and deployment
- Reduced costs associated with higher priced units with same specifications
- Excellent broadband noise performance at -78dBc
- Recessed front panel access to all level controls and indicators
- Use with Cabletronix CTPS-12 power supply and CTRC-12 rack chassis or with 3<sup>rd</sup> party power supplies and/or chassis depending upon configuration
- 1 year warranty with a 1 year loaner guarantee
- 3 year extended warranty available

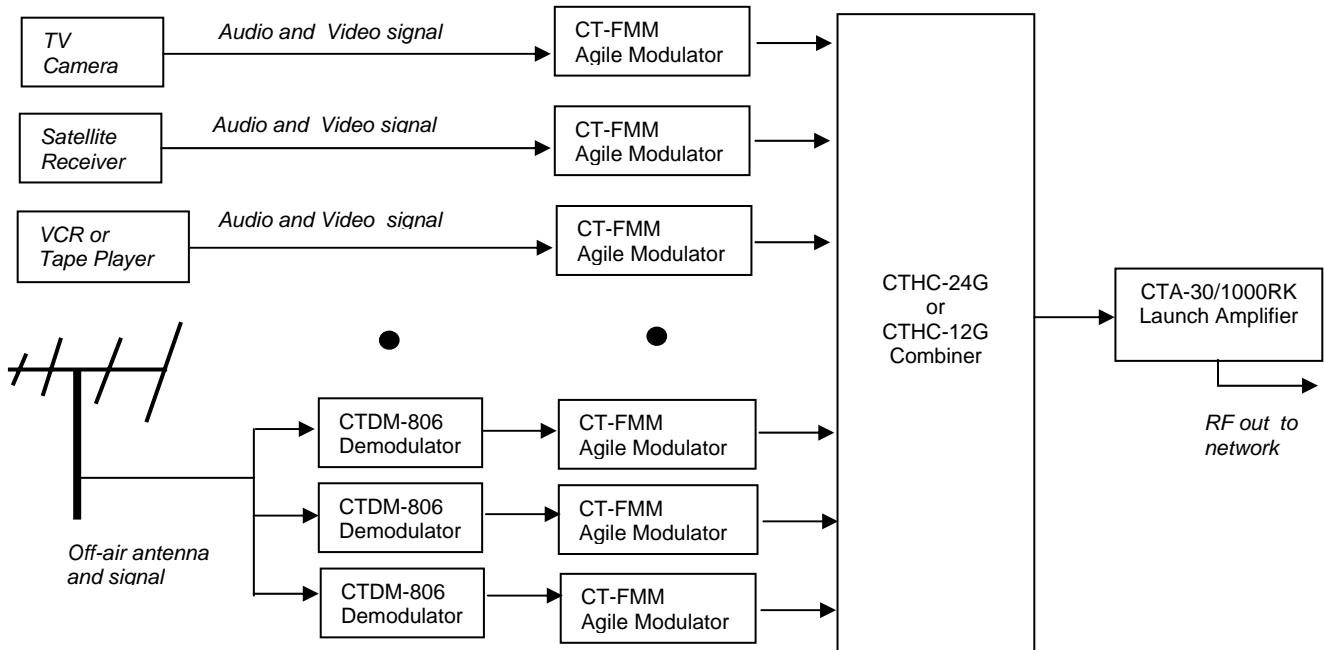
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## Fixed Channel Micro Modulator

### Specifications

<b>RF</b>	Output Frequency	54 ~ 806 MHz. CATV Channels 2 to 125	
	Output Level	+50 dBmV typical, 20 dB Adjustable	
	Spurious Output	> 60 dB	
	C/N Ratio	60 dB typical	
	Broadband Noise	-78 dBc	
	Frequency Accuracy	±5 kHz	
	Output Impedance	75 Ohms	
	Output Return Loss	12 dB	
	A/V Ratio	-18 to -12 dB ( ±2 dB ) , Adjustable	
	<b>Video</b>	Input Level	0.7 V p-p (Min.) for 87.5 % Modulation
Input Impedance		75 Ohms	
Input Return Loss		20 dB	
Flatness		±1 dB,	
Video Signal-to-Noise Ratio		62 dB	
Differential Gain		4.5 %	
Differential Phase		4.5°	
Group Delay Response		meets FCC group delay pre-distortion requirements for color transmission	
<b>Audio</b>		Input Level	0.35V ~1V peak to peak for 50 kHz Deviation
		Input Impedance	> 10 k Ohms
	Flatness	±1 dB, 50 Hz ~ 15 kHz	
	Harmonic Distortion	<1 %, 50 Hz ~ 15 kHz	
<b>General</b>	DC Power Input	5V ( 400 mA ) , 12V ( 150 mA )	
	Weight	14 oz.	
	Dimensions	1" W x 3.5" H x 7.5" D	
	Operating Temperature Range	32°F to 122°F	

### Sample Configuration



The CTFMM fixed channel modulators are regulatory compliant. All product specifications are accurate at time of printing, but are subject to change.

Products are warranted for one year. Warranty can be extended to three years. The CT-AMM is backed by a one-year loaner guarantee. Contact a sales engineer for details.