

4000M

Professional Agile Adjacent Modulator

4000M is the professional agile adjacent modulator which is constructed with proprietary SAW filter that achieves true VSB response and IF modulation signal processing. The spurious harmonic is better than 60dB. Both video and audio carriers are PLL controlled and dual PLL frequency lock guarantees high accuracy and stability. RF amplification circuit module is adopted to realize low non-linear distortion and high output level. With build-in micro-processor, 98 PAL D/K or 106 PAL B/G channels can be programmed and displayed with two LEDs on the front panel. 4000M can save the last used channel automatically after the power is turned off. Its frequency fine tune is between $\pm 4\text{MHz}$; RF output level is above $115\text{dB}\mu\text{V}$; the linearity of audio and video is excellent. It can be used in medium or large CATV systems independently or used with 3000MC, 2500MB, or other modulators together to build or expand CATV systems.



Features

- * 48MHz to 860 MHz agilely controlled by build-in Micro-processor
- * Two PLL synthesized channel control
- * Two Digital LEDs display
- * $+115\text{dB}\mu\text{V}$ RF output capability and low distortion
- * 19" 1U Rack mountable

Specifications

Output Frequency Range	48MHz~860MHz Agile Channel Output (PAL D/K or PAL B/G)
Output Level	115dB μV
Spurious Harmonics	$\geq 60\text{dB}$
RF Output Return Loss	$\geq 12\text{dB}$ (UHF) ; $\geq 10\text{dB}$ (VHF)
Carrier Frequency Accuracy Δf	VHF Δf $\leq 5\text{KHz}$ UHF Δf $\leq 10\text{KHz}$
Carrier Frequency Fine Tune	$\pm 4\text{MHz}$ (0.5MHz Step)
RF Output Level Adjusting Range	0 ~ -20dB
V/A Carrier Power Ratio	10~20dB
Video Input Level	1Vp-p@ 87.5% Modulation index
Output Impedance	75 Ω
Adjacent Channel Rejection Ratio	$\leq -45\text{dB}$
Differential Gain	$\leq 5\%$
Differential Phase	$\leq 5^\circ$
C/L Delay $\Delta\tau$	$ \Delta\tau \leq 45\text{ns}$
Video Clamping Ability	$\geq 26\text{dB}$
Video Flatness	$\leq 2\text{dB}$
Video Input Impedance	75 Ω
Video S/N Ratio	$\geq 46\text{dB}$

Specifications are subject to change without notice

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2T K-factor	≤4%
Audio Carrier Modulation Deviation	±50KHz @ Audio input level is 0dBu
Space between V/A Carrier Frequencies	6500KHz±1KHz (PAL D/K) 5500KHz±1KHz (PAL B/G)
Audio Harmonic Distortion	≤1%
Audio Frequency Response	±1.5dB (40Hz~15KHz,reference frequency is 1KHz)
Audio S/N Ratio	≥56dB
Audio Pre-emphasis	50μs
Power Supply	AC 100-250V, 50/60Hz, <20W
Operation Temperature	5~40°C
Relative Humidity	≤85%
Atmospheric Pressure	86Kpa~106Kpa
Dimensions	483mmX230mmX45mm
Weight	2.2Kg

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