



DSM2500D

Agile Modulator



Outline

DSM2500D is a cost-effective agile modulator designed by Dexin. It has 1 audio (L/R) and 1 video (CVBS) input. It gives 1 RF out (47~870MHz) through the RF output interface, and the output frequency is configurable. Audio and video source can be from satellite receiver, TV camera etc. With the features of low cost high performance, DSM2500D is very adaptable to hotel, community and entertainment spot.

Key Features

- Support 1* audio (L/R) and 1*video (CVBS) input
- Support 1*RF output, and 1 RF test port
- RF output frequency range: 47~870MHz in 1 kHz step, output frequency is configurable
- Video input AGC function
- TV System standard: PAL B/G, PAL, D/K NTSC, SECAM, etc.
- Support update online
- 19' 1U standard structure
- Keyboard and LCD operation

Specifications

Input	1* audio (L/R) input and 1*video (CVBS)	
Video	A/V ration	-10~-20dB
	Input level	1V _{PP}



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	Video clamping capacity	$\geq 26\text{dB}$
	Color / light delay difference	$\leq 45\text{nS}$
	Differential gain	$\leq 2\%$ (Modulation 87.5%)
	Differential phase	$\leq 2^\circ$ (Modulation 87.5%)
	SNR	$\geq 50\text{dB}$
	Image carrier drift	$\leq 5\text{kHz}$
	2T-K impulse ratio	$\leq 4\%$
	Flatness in band	$\leq 1\text{dB}$
Audio	Pre-emphasis of audio	$50\mu\text{s}$
	Input level	0.7V
	SNR	$\geq 60\text{dB}$
	Flatness in band	$\leq 1\text{dB}$
	Distortion degree	$\leq 0.5\%$
	Audio modulation frequency offset	$\pm 50\text{kHz}$
	V/A interval	According to TV System standard
RF Output	Interface	1 F typed output port, 75Ω
	Frequency range	$47\sim 870\text{MHz}$, 1kHz step
	TV system standard	PAL B/G, PAL D/K, NTSC, SECAM
	Output return loss	$\geq 14\text{dB}$
	Output level	$\geq 113\text{dB}\mu\text{V}$
	Output level adjustable range	$0\sim 16\text{dB}$
	Error of video/audio carrier interval	$\leq 5\text{kHz}$
	Carrier to noise ratio (C/N)	$\geq 62\text{dB}$
	Output suppression	$\geq 60\text{dB}$ ($\geq 130\text{dB}\mu\text{V}$ testing)
	Flatness in band	$\leq 1\text{dB}$
	Frequency accuracy	$\leq 5\text{kHz}$
	Adjacent Frequency suppression	$\geq 45\text{dB}$
System function	Keyboard and LCD operation	
	Multiple languages	
	Ethernet software upgrade	
Miscellaneous	Dimension(W×L×H)	$482*256*44\text{mm}$
	Environment	$-10\sim 45^\circ\text{C}$ (work); $-20\sim 80^\circ\text{C}$ (storage)
	Power requirements	AC $90\sim 264\text{V}$, 50Hz

Working Principle

