

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	$1V_{PP}$

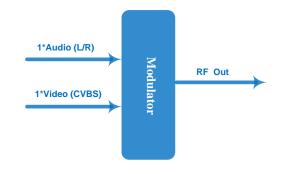


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	Video clamping capacit	y	≥26dB
	Color / light delay difference		≤45nS
	Differential gain		≤2% (Modulation 87.5%)
	Differential phase		$\leq 2^{\circ}$ (Modulation 87.5%)
	SNR		≥50dB
	Image carrier drift		≤5kHz
	2T-K impulse ratio		<u>≤4%</u>
	Flatness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

Working Principle





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