



NDS3524C

Encoder Modulator



## Product Overview

NDS3524C encoder modulator is DEXIN's all-in-one device integrating MPEG2 encoding and modulating to convert audio/video signals into DVB-C/T/ATSC/ISDB-T/DTMB RF out. It supports 1/4/8 HDMI inputs, and its pay-as-you-grow modular design and flexible configuration are making it extremely scalable, and very reliable with high performance. The signals source could be from STB, satellite receiver, closed-circuit television cameras and antenna etc. Its output signal is to be received by TVs or STBs etc.

## Key Features

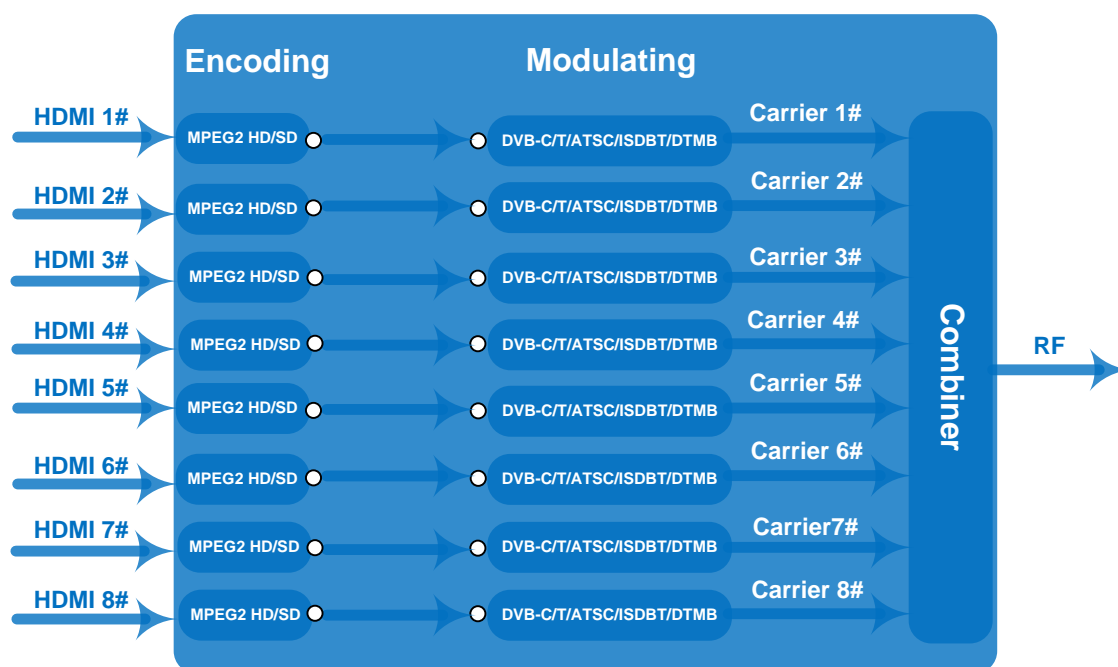
- Support 1/4/8 HDMI channels input
- Support MPEG2 video encoding
- Support 1080p/i,720p, 576i, 480i video resolution



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- Support low latency(50~1000ms)
- Support MPEGI layer 2, MPEG-2 AAC, and DD AC3 audio encoding
- Support CC (Closed Caption), EIA 608
- Support LCN (Logical Cluster Number)
- DVB-C/T/ATSC/ISDB-T/DTMB RF out in one device, Modulation dynamic switching
- Each channel supports 1 DVB-C/T/ATSC/ISDB-T/DTMB output option
- Control via web-based NMS, and easy updates via web

## Inner Principle Chart



## Specifications

HDMI Encoding Section			
<b>Input</b>	Interface	HDMI*1/4/8	
	Encoding	MPEG2	
<b>Video</b>	<b>Input</b>	<b>Output</b>	
	480@59.94/60i	480@30p	
	576@50i	576@25p	
	720@50/59.94/60p	720@25/30p	
	1080@50i	1080@25p	
	1080@59.94/60i	1080@30p	
	1080@50p	1080@25p	
	1080@59.94/60p	1080@30p	
	Bit-rate	2.000~20.000 Mbps	
	GOP	1~60	
Rate Control	VBR		
Aspect Ratio	16 :9		

<b>Audio</b>	Encoding	MPEGI layer 2, MPEG-2AAC, AC3	
	Sample rate	48KHz	
	Bit rate	MPEGI layer 2 (128kbps)	
		MPEG-2 AAC (VBR)	
AC3 (128kbps)			

DVB-C Modulator Section		
Standard	J.83A (DVB-C), J.83B	
MER	≥35dB	
RF frequency	100-1000MHz, 1KHz step	
RF output level	-48~ -10dBm, 1dB step	
Symbol rate	3.000~7.000Msps adjustable	
	J.83A	J.83B
Constellation	16/32/64/128/256QAM	64/ 256QAM
Bandwidth	8M	6M
DVB-T Modulator Section		

Standard	DVB-T COFDM
Bandwidth	2M, 3M, 4M, 5M, 6M, 7M, 8M
Constellation	QPSK, 16QAM, 64QAM
Code rate	1/2, 2/3, 3/4, 5/6, 7/8
Guard Interval	1/32, 1/16, 1/8, 1/4
Transmission Mode:	2K, 8K
MER	≥35dB
RF frequency	100-1000MHz, 1KHz step
RF output level	-48~ -10dBm, 1dB step

#### ISDB Modulator Section

Standard	ARIB STD-B31
Constellation	QPSK, 16QAM, 64QAM
Guard Interval	1/32, 1/16, 1/8, 1/4
Transmission Mode	2K, 4K, 8K
Code rate	1/2, 2/3, 3/4, 5/6, 7/8
RF frequency	100~1000MHz, 1KHz step
RF output level	-48~ -10dBm, 1dB step

#### ATSC Modulator Section

Standard	ATSC A/53
Constellation	8 VSB

MER	≥35dB
RF frequency	100~1000MHz, 1KHz step
RF output level	-48~ -10dBm, 1dB step

#### DTMB Modulator Section

RF frequency	100-1000MHz, 1KHz step
RF output level	-48~ -10dBm, 1dB step
Transmission Mode	S-0.8-4QAM-595, S-0.8-16QAM-595, M-0.4-16QAM-945V, M-0.6-16QAM-945V, M-0.6-64QAM-420V, M-0.6-64QAM-945V, M-0.8-16QAM-420V, M-0.8-16QAM-945V, M-0.8-64QAM-420V,

#### System

Management	Web
Language	English
Upgrade	Web update

#### General

Power supply	AC 100V±10%, 50/60Hz or AC 220V±10%, 50/60Hz
Dimensions	482*328*44.5mm
Temperature	0~45℃ (operation), -20~80℃ (storage)



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