NDS3548 Encoder Modulator (8 CVBS to DVB-C/T) Support MPEG-2 and MPEG-4

Product overview

NDS3548 8 in 1 Encoder/Modulator is an all-in-one device integrated encoding multiplexing and modulation functions in one standard 1U case. It can convert 8 CVBS signals and 1 ASI input to DVB-C (DVB-T Optional) RF out. It is also equipped with 2 ASI ports and IP port to output TS in MPTS or SPTS.

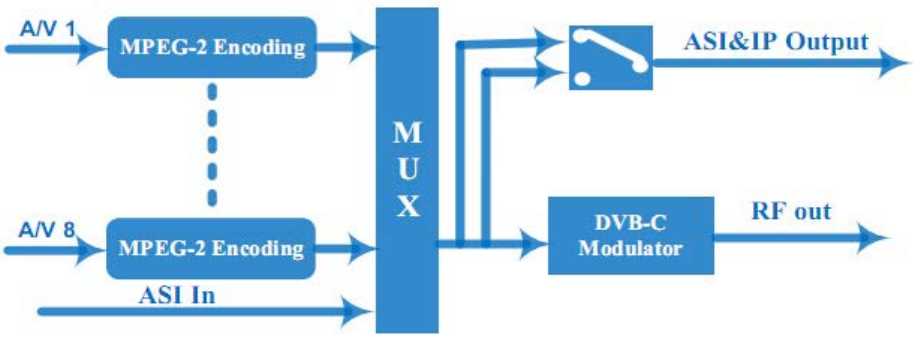
The signals source could be from satellite receivers, closed-circuit television cameras and etc. its output signal is to be received by DVB-C/T standard TVs or DVB-C/T STBs.

The device can be used in public place such as metro, market hall, theatre, hotels, resorts, etc for advertising. It also can be used for monitoring, training and educating in company, schools, campuses, hospital.

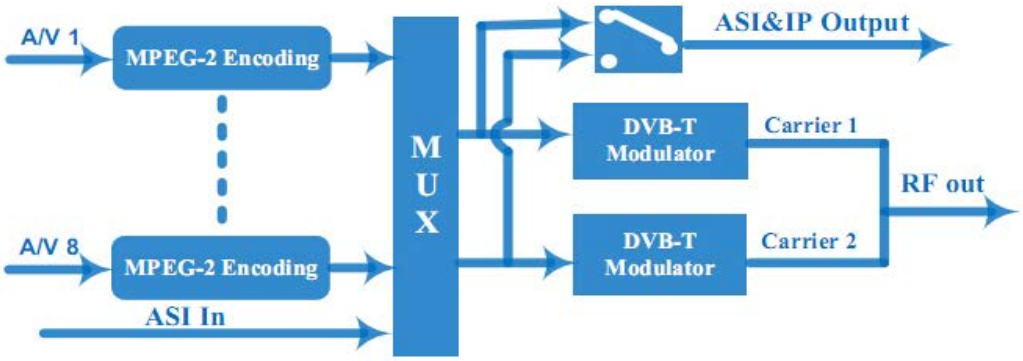
Key Features

- Support 8 CVBS input and 1 ASI Input for re-mux
- Mpeg2 video encoding
- Support PAL, NTSC SD signal
- 1*DVB-C or 2*DVB-T RF output optional
- ASI and IP (MPTS or 8xSPTS over UDP) output
- LCN support (Logical Channel Number)
- Excellent modulation quality MER≥42dB
- LCD display, Remote control and firmware
- Web NMS Management
- Updates via web/Ethernet
- Lowest cost per channel --- breakthrough price

Principle chart



8*CVBS to 1*DVB-C



8*CVBS to 2*DVB-T

Specification

Input	8 CVBS inputs , BNC interface	
	8 pairs unbalanced stereo audio input, BNC interface	
	1 ASI input, BNC interface	
Video	Resolution	PAL: 720×576_50i, 640×576_50i, 352×288_50i, 320×288_50i, 176×288_50i, 176×144_50i NTSC: 720×480_59.94i, 544×480_59.94i, 352×240_59.94i, 320×240_59.94i, 176×240_59.94i, 160×120_59.94i
	Encoding	MPEG-2
	Bit Rate	0.125-19.000 Mbps
	Rate Control	CBR/VBR
Audio	Encoding	MPEG1 Layer 2; AC3
	Sampling rate	48KHz
	Bit-rate	64kbps, 96kbps, 112kbps, 128kbps, 160kbps, 192kbps, 224kbps, 256kbps, 320kbps
DVB-T Modulator Section	Standard	EN300744
	FFT mode	2K, 8K
	Bandwidth	6M, 7M, 8M
	Constellation	QPSK, 16QAM, 64QAM
	Guard Interval	1/4, 1/8, 1/16, 1/32
	FEC	1/2, 2/3, 3/4, 5/6, 7/8
	MER	≥42 dB
	RF frequency	30~999MHz, 1KHz step
	RF out	2*RF COFDM DVB-T out (2 carriers combined output); Double output bandwidth
	RF output level	-30~ -10dbm (77~97 dbμV), 0.1db step

DVB-C Modulator Section	Standard	J.83A, J.83B, J.83C	
	MER	≥42dB	
	RF frequency	30~950MHz, 1KHz step	
	RF output level	-30.0~ 0.0 dbm (77~107 dbμV), 0.1db step	
	Symbol rate	5.0 - 9.0 Msps adjustable	
	J.83A	Constellation	16/32/64/128/256QAM
		bandwidth	8M
	J.83B	Constellation	64QAM, 256QAM
		bandwidth	6M
	J.83C	Constellation	64QAM, 256QAM
		Bandwidth	6M
Multiplexing	1 ASI input multiplexed with local 8 channels of TS		
Stream Output	2*ASI mirrored output, BNC interface		
	2*MPTS/8*SPTS over UDP, 100Base-T Ethernet interface (UDP unicast / multicast)		
System Function	Low Latency achieved (Normal, mode 1 and mode 2 optional)		
	LCD/keyboard and Web-based NMS operating		
	System Language: English		
	Ethernet software & hardware upgrade		
Miscellaneous	Dimension (W× L× H)	482mm×410mm×44mm	
	Approx weight	4kg	
	Temperature	0~45℃(work), -20~80℃ (Storage)	
	Power	AC 100V-220V±10%, 50/60Hz	
	Consumption	25W	