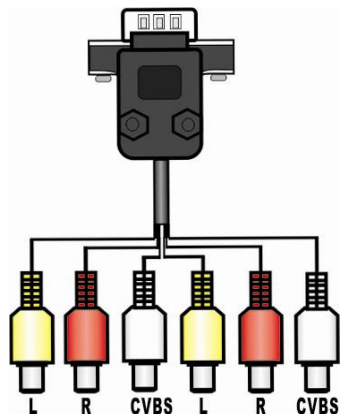
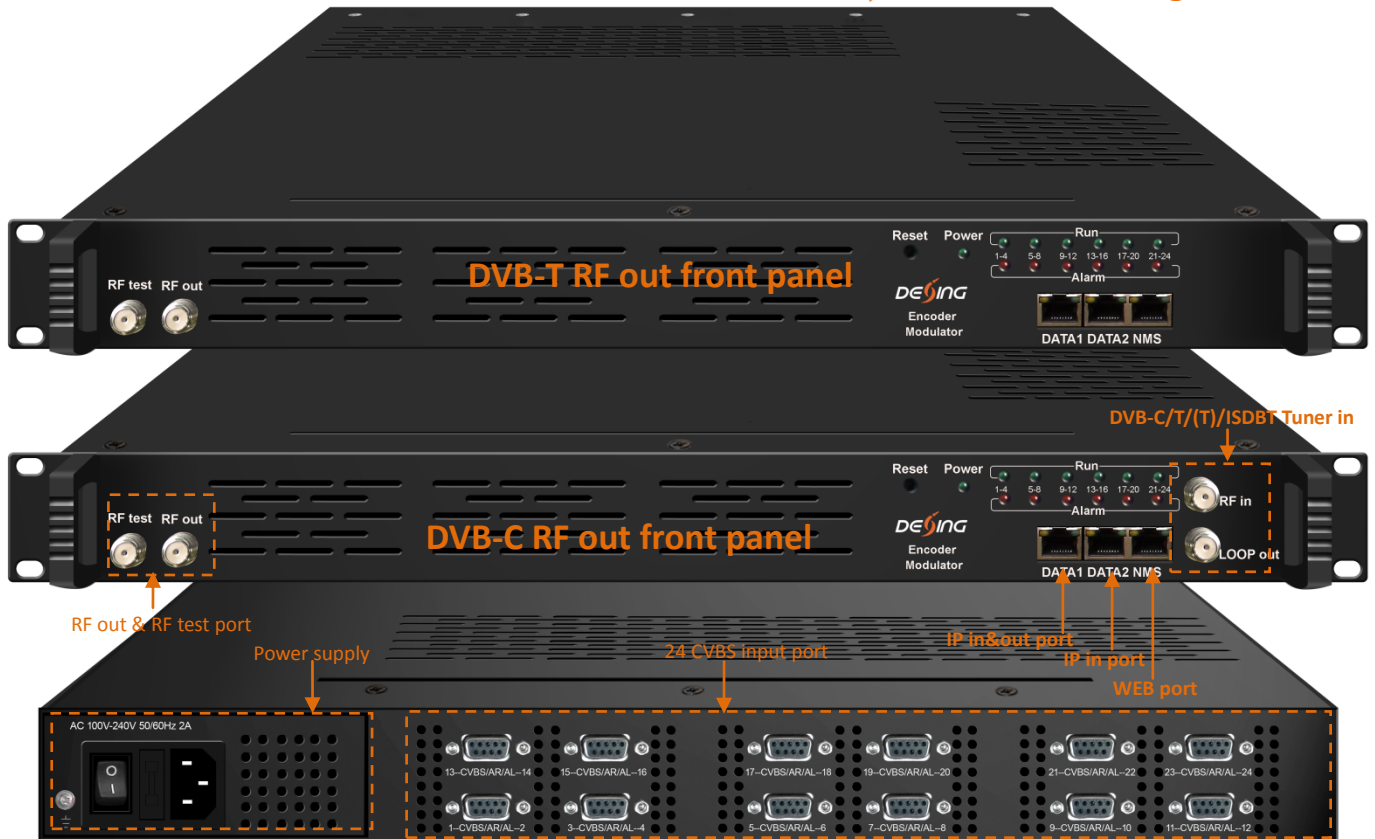




NDS3542H/HA

Encoder Modulator

8/12/16/20/24* CVBS/1 DVB-C Tuner → 4* DVB-C/T Digital RF



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Add: No. 10 & No. 12, Wuxing Fourth Road, Wuhou District, Chengdu 610045, Sichuan, P.R. China

www.dsdbv.com/English Tel: +86-028-85558928 Fax: +86-028-85585255 Email: sunyu@dsdbv.com

OSD (Logo/Caption/QR Code) Insertion



Product Overview

NDS3542H/HA encoder modulator is a professional high integration device which includes encoding, multiplexing, scrambling and modulation. It supports 8 to 24 CVBS inputs, one DVB-C/T(T)/ISDBT tuner input and 128 IP input through Data1 (GE) and Data2 (FE) port. It also supports DVB-C/T RF out with 4 adjacent carries, and supports 4 MPTS out thru Data1 (GE). This full function device makes it ideal for small CATV head end system, and it's a smart choice for hotel TV system, entertainment system in sports bar, hospital, apartment...

Key features

- 8/12/16/20/24 A/V inputs with MPEG2 Encoding
- MPEG1 Layer II, AC3(2.0) Audio encoding and support audio gain adjustment
- 1 DVB-C/T(T)/ISDBT tuner input for re-mux (For DVB-C RF out version. Suitable for India market.)
- 128 IP input over UDP and RTP protocol
- 4 groups of multiplexing/scrambling/modulation output channels
- Support PID remapping/ accurate PCR adjusting/PSI/SI editing and inserting
- Support 4 MPTS IP (DATA1 port only) output over UDP and RTP
- Support 4 DVB-C or 4 DVB-T RF out
- Support CC (closed caption)
- **Support LOGO, Caption, QR code insertion---NDS3542HA(Language Supported: 中文, English, اردو, for more languages please consult us...)**
- Control via web management, and easy updates via web

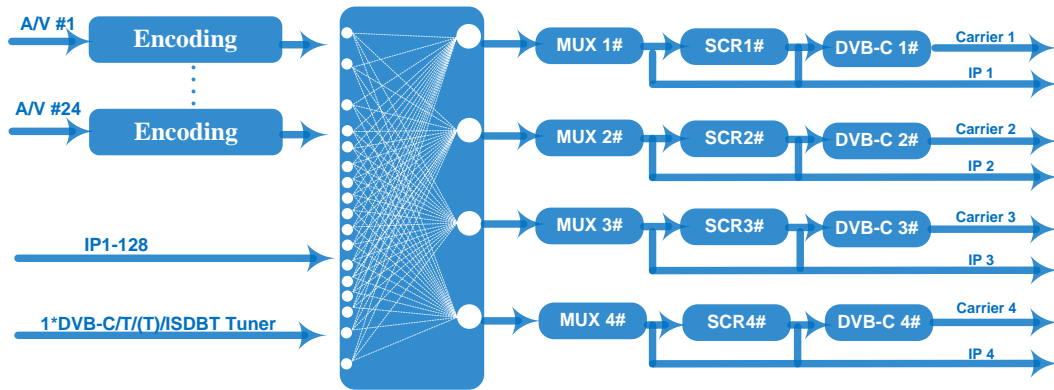


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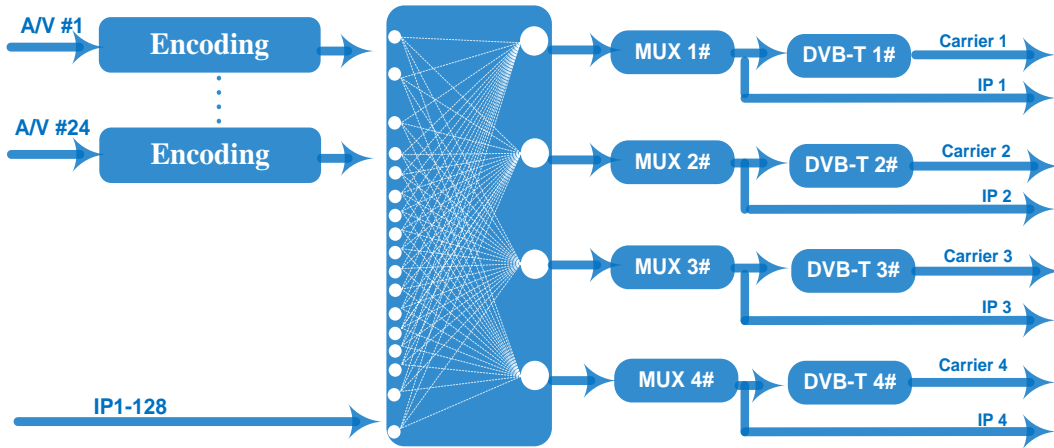
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- **Lowest cost per channel, breakthrough price**

Principle Chart



DVB-C RF output



DVB-T RF output

Technical specification

Input	8/12/16/20/24 CVBS inputs , RCA interface , 1 DVB-C/T/(T)/ISDBT Tuner for remux, F type interface (only for DVB-C RF out) 128 IP input over UDP and RTP, DATA1 and DATA2,RJ45		
Tuner Section	DVB-C	Standard	J.83A(DVB-C), J.83B, J.83C
		Frequency In	60 MHz~890 MHz
		Constellation	16/32/64/128/256 QAM
	DVB-T/(T)	Frequency In	60 MHz~890 MHz
		Bandwidth	6/7/8 M bandwidth
ISDB-T	Frequency In	60 MHz~890 MHz	
Video	Resolution	720×480_60i, 544×480_60i, 352×480_60i 352×240_60i,320×240_60i,176×240_60i, 176×120_60i	
		720×576_50i,704×576_50i,640×576_50i, 352×288_50i 320×288_50i, 176×288_50i, 176×144_50i	



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	Encoding	MPEG-2			
	Bit-rate	0.5Mbps~8Mbps each channel			
	Rate Control	CBR, VBR			
	GOP Structure	GOP_0_B, GOP_1_B, GOP_2_B, GOP_3_B			
	Advanced Pretreatment	De-interlacing, noise reduction			
Audio	Encoding	MPEG-1 Layer 2, AC3 (2.0)			
	Sampling rate	48KHz			
	Resolution	24-bit			
	Bit-rate	64Kbps,128Kbps,192kbps,256kbps,320kbps,384kbps each channel			
Multiplexing	Maximum PID Remapping	180 input per channel			
	Function	PID remapping (automatically or manually)			
		Accurate PCR adjusting			
Generate PSI/ SI table automatically					
Scrambling (Only for DVB-C RF out)	Maximum simulcrypt CA	4			
	Standard	ETR289, ETSI 101 197, ETSI 103 197			
	Connection	Local/remote connection			
Modulation	DVB-C	RF out	4*RF DVB-C out (4 carriers combined output)		
		Standard	EN300 429/ITU-T J.83A/B		
		MER	≥40db		
		RF frequency	50~960MHz, 1KHz step		
		RF output level	-25 ~ -1 dBm, 1dBm step		
		Symbol Rate	5.0Msps~7.0Msps, 1ksps stepping		
		Constellation	16/32/64/128/256QAM		
		Constellation	J.83A	J.83B	
			16/32/64/128/256QAM	64/256 QAM	
	Bandwidth	8M	6M		
	DVB-T	RF out	4*RF DVB-T out (4 carriers combined output)		
		Standard	EN300744		
		FFT mode	2K,		
		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	50~960MHz, 1KHz step		
RF output level	-28~ -3 dBm, 1 dBm step				
Stream output	RF output (F type interface)				
	4 IP MPTS output over UDP/RTP, 1*1000M Base-T Ethernet interface				
System function	Network management (WEB)				
	English language				

	Ethernet software upgrade	
Miscellaneous	Dimension (W×L×H)	482mm×410mm×44mm
	Environment	0~45℃(work); -20~80℃ (Storage)
	Power requirements	AC 110V± 10%, 50/60Hz, AC 220 ± 10%, 50/60Hz

Order Information

	NDS3542H (DVB-C RF out)	NDS3542H (DVB-T RF out)	NDS3542HA (DVB-C RF out)	NDS3542HA (DVB-T RF out)
Scrambling Function	√		√	
DVB-C/T/(T)/ISDBT Tuner Input	√		√	
OSD Insertion Function			√	√



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