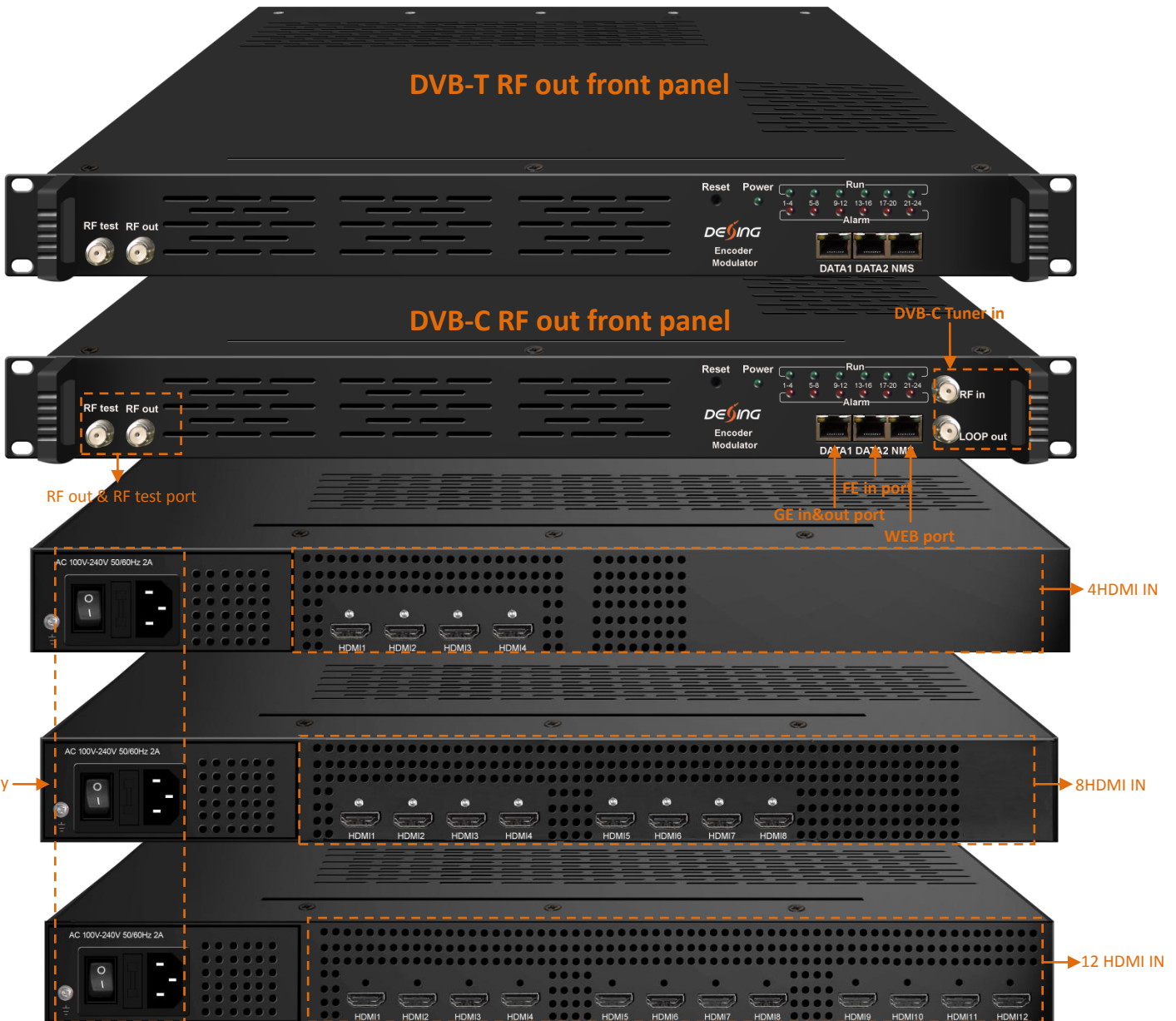




NDS3542I

Encoder Modulator



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OSD (Logo/Caption/QR Code) Insertion



Product Overview

NDS3542I is a professional high integration device which includes encoding, multiplexing, scrambling and modulating. It supports 4/8/12 HDMI input, one DVB-C tuner input and 128 IP input with Data1 (GE) and Data2 (FE) port. It also supports DVB-C/T RF out with 4 adjacent carries, and support Data1 (GE) output port to support 4 MPTS out. 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

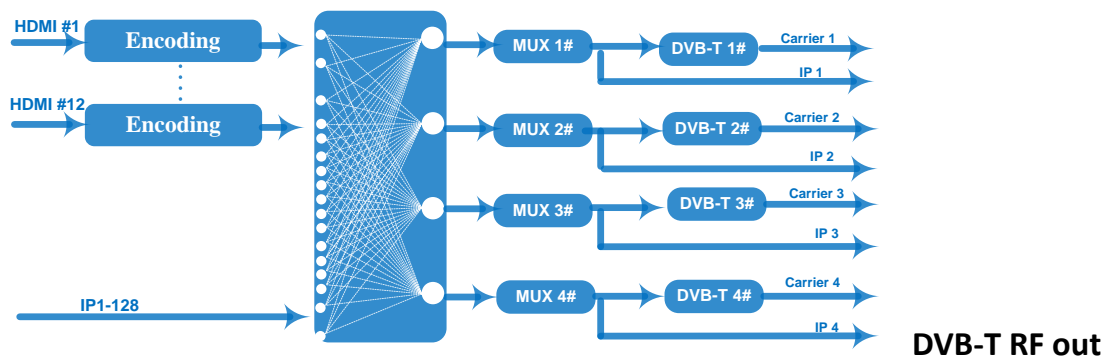
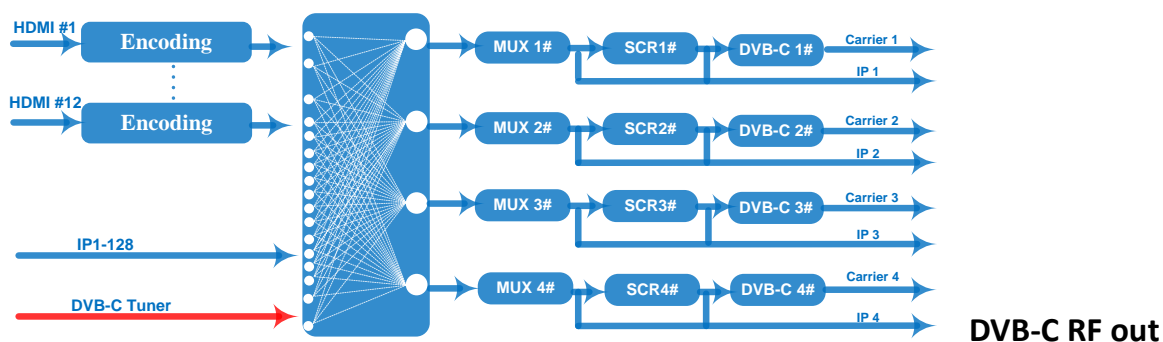
- **Support LOGO, OSD and QR code insertion for every local channel (Language Supported: 中文, English, العربية, ไทย, हिन्दी, русская, اردو, for more languages please consult us...)**
- **4/8/12 HDMI input, MPEG-4 AVC/H.264 Video encoding**
- **1DVB-C tuner input for re-mux (only for DVB-C RF out and suitable for India market)**
- **128 IP input over UDP and RTP protocol**
- **MPEG1 Layer II Audio encoding and support audio gain adjustment**
- **4 groups of multiplexing/scrambling/modulating output channels**
- **4 DVB-C or DVB-T RF out**
- **Support 4 MPTS IP (DATA1 port only) output over UDP and RTP**
- **Support PID remapping/accurate PCR adjusting/PSI/SI editing and inserting**
- **Control via web management, and easy updates via web**

Principle Chart



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Technical Specification

Input	4/8/12 HDMI inputs for option		
	1 DVB-C Tuner input for remux, F type interface (only for DVB-C RF out)		
128 IP input over UDP and RTP			
Video	Encoding	MPEG-4 AVC/H.264	
	Resolution	In-put	1920×1080_60P, 1920×1080_60i, 1920×1080_50P, 1920×1080_50i, 1280×720_60P, 1280×720_50P, 720×576_50i,720×480_60i,
		Out-put	1920×1080_30P, 1920×1080_25P, 1280×720_30P, 1280×720_25P, 720×576_25P,720×480_30P,
	Bit-rate	1Mbps~13Mbps each channel	
	Rate Control	CBR/VBR	
Audio	Encoding	MPEG-1 Layer 2	
	Sampling rate	48KHz	
	Resolution	24-bit	
	Audio Gain	0-255 Adjustable	
	Bit-rate	64kbps,128Kbps,192kbps,224kbps,256kbps,320kbps,384kbps	
Multiplexing	Maximum PID Remapping	180 input per channel	
	Function	PID remapping (automatically or manually)	
		Accurate PCR adjusting	
		Generate PSI/ SI table automatically	

Scrambling	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~-1dBm (82~105 dbμV), 0.1dBm	
		Symbol Rate	5.0Msps~7.0Msps, 1ksps stepping	
			J.83A	J.83B
		Constellation	16/32/64/128/256QAM	64/256 QAM
		Bandwidth	8M	6M
	DVB-T	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 out	4*RF COFDM DVB-T out (4 carriers combined output)	
		RF output level	-28~ -3 dBm (77~97 dbμV), 0.1db step	
Stream output	RF output (F type interface)			
	4 IP MPTS output over UDP/RTP, 1*1000M Base-T Ethernet interface (Data1 only)			
System function	Network management(WEB)			
	Chinese and English language			
	Ethernet software upgrade			
Miscellaneous	Dimension(W×L×H)	482mm×410mm×44mm		
	Environment	0~45°C(work); -20~80°C (Storage)		
	Power requirements	AC 110V± 10%, 50/60Hz, AC 220 ±10%,50/60Hz		

Order Information

	NDS3542I-4 (DVB-C RF out)	NDS3542I-4 (DVB-T RF out)	NDS3542I-8 (DVB-C RF out)	NDS3542I-8 (DVB-T RF out)	NDS3542I-12 (DVB-C RF out)	NDS3542I-12 (DVB-T RF out)
4 HDMI Input	√	√				
8 HDMI Input			√	√		
12 HDMI Input					√	√
Scrambling function	√		√		√	
DVB-C Tuner Input	√		√		√	



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