



NDS3542IU

Encoder Modulator



OSD (Logo/Caption/QR Code) Insertion



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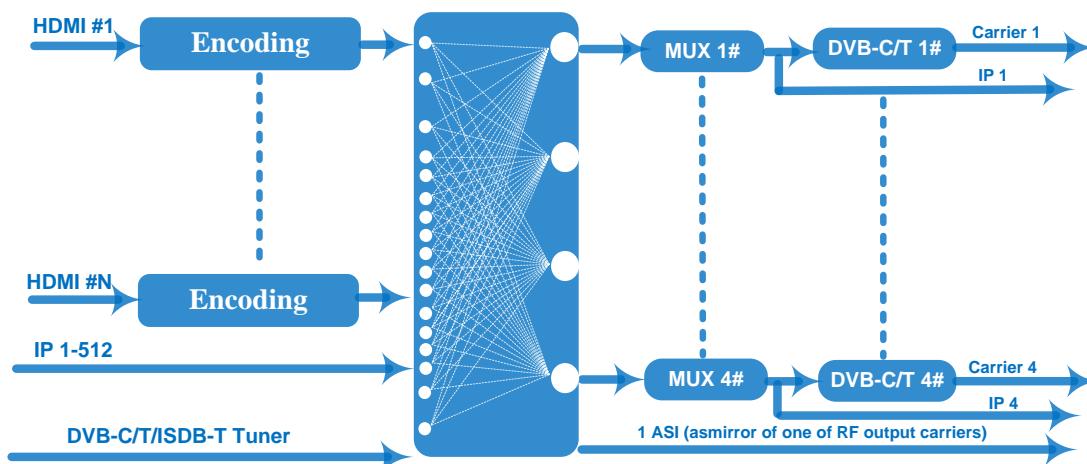
Product Overview

NDS3542IU is a professional high integration device which includes encoding, multiplexing, and modulation in one body. It supports up to 24 HDMI input, one DVB-C/T/ISDB-T (ATSC optional) tuner input and up to 512 IP input for re-mux. After multiplexing, it output 4 non-adjacent DVB-T/C carriers. It also supports 4 MPTS as mirror of 4 carriers through 2 Data ports. This full functionality 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× HDMI input with **HEVC/H.265, MPEG4 AVC/H.264 video encoding format**
- **Support B frame GOP, high video compression ratio and stable bitrate**
- **MPEG-1 Layer 2, LC-AAC, HE-AAC, HE-AAC V2 audio encoding, AC3 Pass-through**
- **Support 4 groups multiplexing DVB-T/C modulating channels out**
- **Support 1 ASI out as mirror of one of RF output carriers—Optional**
- **Support 4 MPTS IP output over UDP, RTP/RTSP**
- **Support LOGO, Caption and QR code insertion** (Language Supported: 中文, English, العربية, ไทย, हिन्दी, русский, اردو, for more languages please consult us...)
- **Support PID remapping/ accurate PCR adjusting/PSI/SI editing and inserting**
- **Control via web management, and easy updates via web**

Principle Chart



Technical Specification



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Input	8/12/16/20/24 HDMI inputs 1 DVB-C/T/ISDB-T (ATSC optional) Tuner for re-mux, F type interface 512 IP input over UDP and RTP, DATA1(GE port) and Data2 (FE port), RJ45				
Video	Resolution	Input	1920×1080_60P, 1920×1080_50P, 1920×1080_59.94P, 1920×1080_60i, 1920×1080_50i, 1920×1080_59.94i, 1280×720_60P, 1280×720_59.94P, 1280×720_50P		
		Output	1920×1080_60P, 1920×1080_50P, 1920×1080_30P, 1920×1080_25P, 1280×720_60P, 1280×720_50P		
	Encoding	MPEG-4 AVC/H.264, HEVC/H.265			
	Bit-rate	1~13Mbps for each channel			
	Rate Control	CBR/VBR			
	GOP Structure	IP, IBBP, IBBBP			
Audio	Encoding	MPEG-1 Layer 2, LC-AAC, HE-AAC, HE-AAC V2; AC3 Pass-through			
	Audio Delay	-400— 1000ms			
	Sample rate	48KHZ			
	Bit-rate	48Kbps~384Kbps (MPEG-1 Layer 2 & LC-AAC) 24 Kbps~128 Kbps (HE-AAC) 18 Kbps~56 Kbps (HE-AAC V2)			
Multiplexing	Maximum PID Remapping	256 input per channel			
	Function	PID remapping (automatically or manually)			
		Accurate PCR adjusting Generate PSI/ SI table automatically			
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	-25~0dBm (82~107 dbμV), 0.1dBm		
		Symbol Rate	5.0Msps~7.0Msps, 1ksps stepping		
			J.83A	J.83B	
		Constellation	16/32/64/128/256 QAM		64/256 QAM
		Bandwidth	J.83A 8M	J.83B 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 (79~104 dbμV), 0.1dBm step		

Stream output	1 ASI output as mirror of one of RF output carriers- Optional	
	4 MPTS output through Data1(GE port) and Data2 (FE port) over UDP and RTP/RTSP as mirror of 4 DVB-C/T carriers	
System function	Network management (WEB)	
	Chinese and English language	
	Ethernet software upgrade	
Miscellaneous	Dimension (W×L×H)	482mm×440mm×44mm
	Environment	0~45°C(work); -20~80°C (Storage)
	Power requirements	AC 110V± 10%, 50/60Hz, AC 220 ± 10%, 50/60Hz