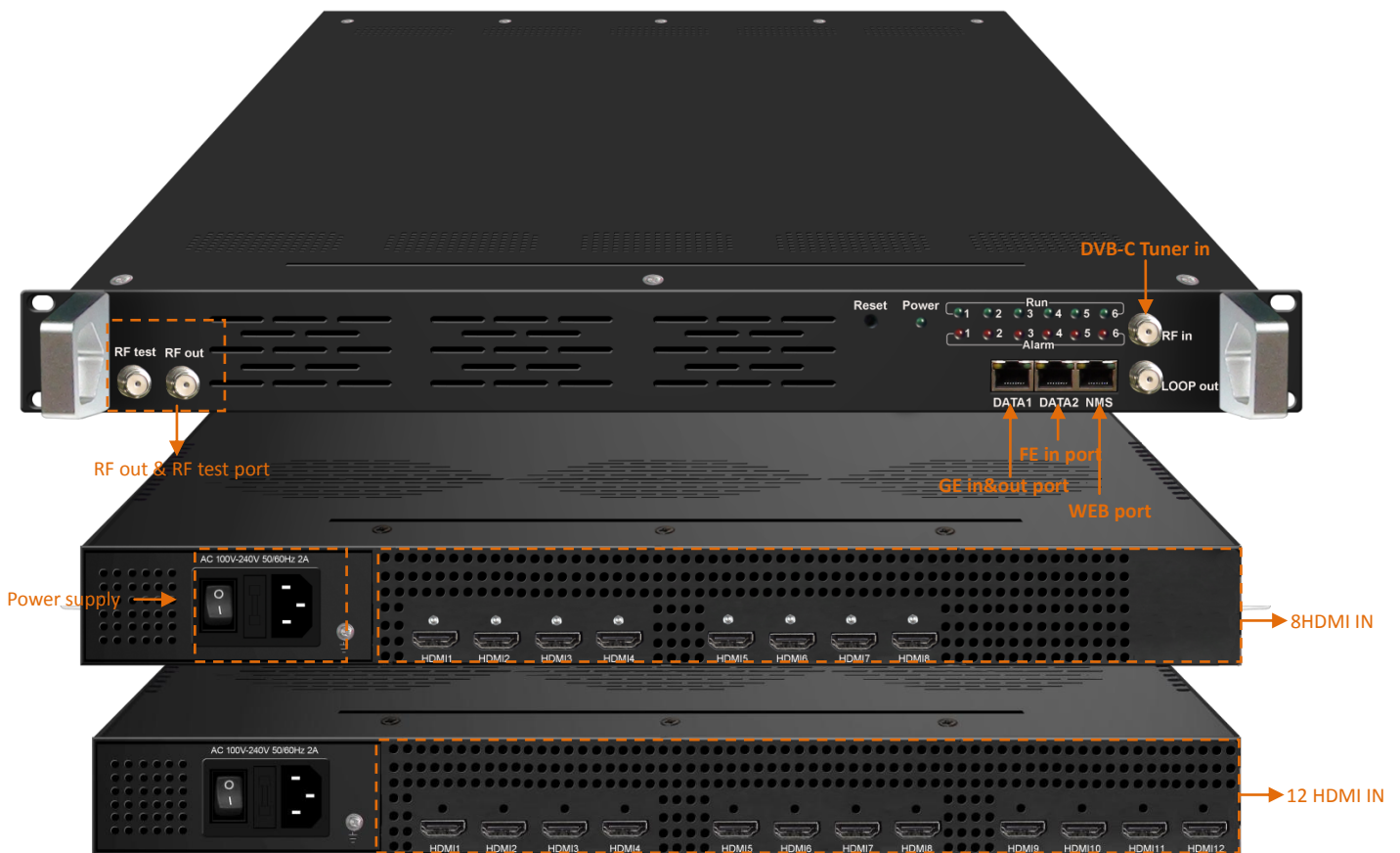




**NDS3542I**

**Encoder Modulator**

**8/12\* HDMI/1 DVB-C Tuner/128 IP → 4\* DVB-C/T Digital RF**



## QR CODE, LOGO, OSD Insertion



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## Product Overview

NDS3542I is a professional high integration device which includes encoding, multiplexing, scrambling and DVB-C/T modulation. It supports 12 HDMI (8 HDMI optional) input, one DVB-C tuner input and 128 IP input with Data1(GE) and Data2(FE) port. It also support DVB-C/T RF out with 4 adjacent carries (50MHz~960MHz), 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...

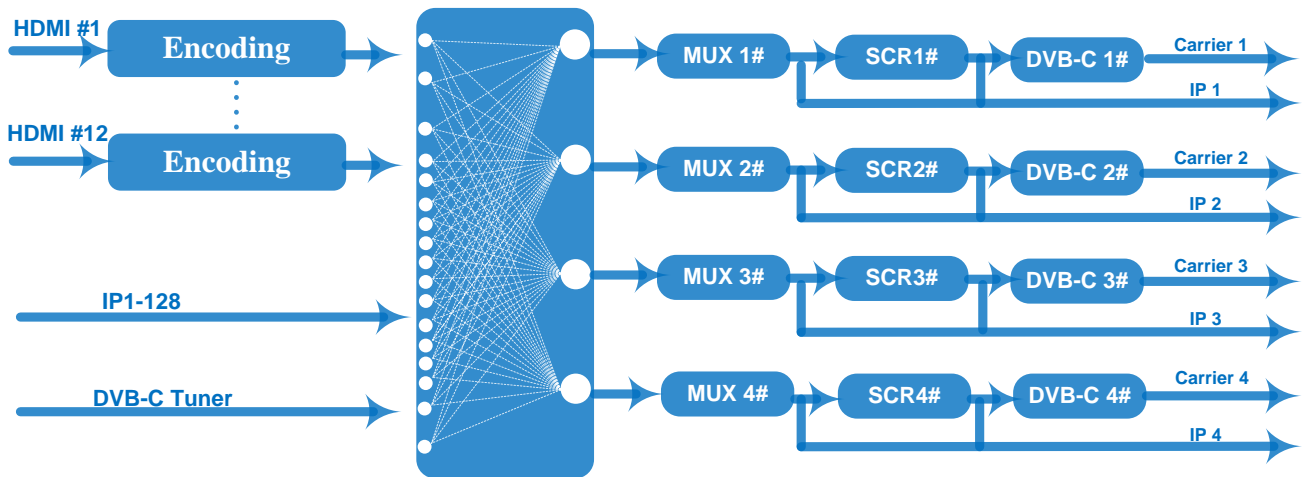
## Key features

- 12 HDMI input, 1DVB-C tuner input
- 128 IP input over UDP and RTP protocol
- MPEG-4 AVC/H.264 Video encoding
- MPEG1 Layer II Audio encoding and **support audio gain adjustment**
- 4 groups multiplexing, 4 groups scrambling and 4 DVB-C RF carriers out
- 4 groups multiplexing and 4 DVB-T RF carriers out
- Support IP(MPTS only, DATA1 port only) output over UDP and RTP
- **Support QR code, LOGO, OSD insertion**
- Support “Null PKT Filter” function
- Excellent RF output performance index,  $MER \geq 40dB$
- Support PID remapping
- Support accurate PCR adjusting
- Support PSI/SI editing and inserting
- Control via web management, and easy updates via web
- **Lowest cost per channel, breakthrough price**

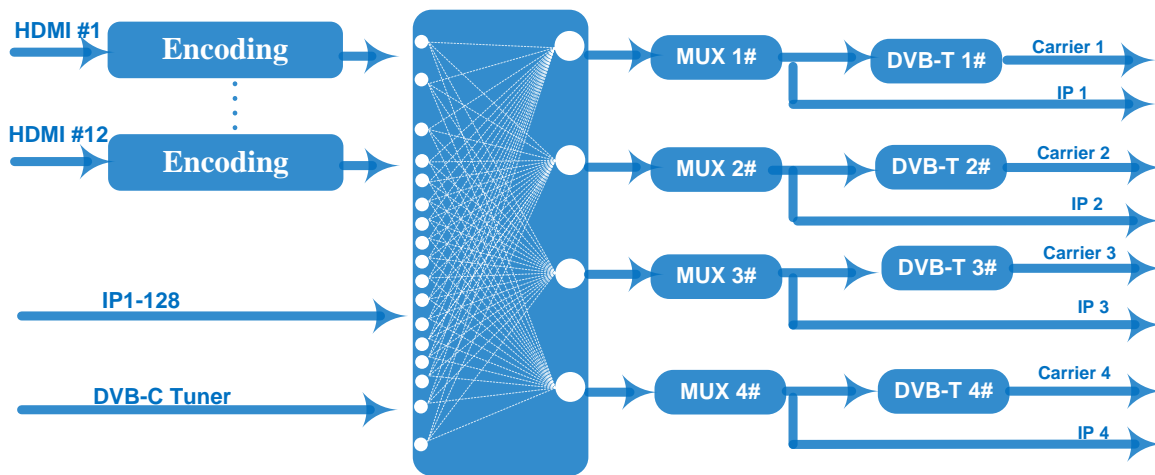
## Principle Chart



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**DVB-C RF out**



**DVB-T RF out**

**Technical specification**

<b>Input</b>	12 HDMI inputs(8 HDMI optional)		
	1 DVB-C Tuner, F type interface DATA1 and DATA2,RJ45		
<b>Video</b>	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,
	Encoding	MPEG-4 AVC/H.264	
	Bit-rate	1Mbps~13Mbps each channel	
	Rate Control	CBR/VBR	
	GOP Structure	IP...P (P Frame adjustment, without B Frame )	
<b>Audio</b>	Encoding	MPEG-1 Layer 2	
	Sampling rate	48KHz	



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	Resolution	24-bit		
	Bit-rate	64kbps,128Kbps,192kbps,224kbps,256kbps,320kbps,384 kbps		
<b>Multiplexing</b>	Maximum PID Remapping	180 input per channel		
	Function	PID remapping ( automatically or manually)		
		Accurate PCR adjusting		
Generate PSI/ SI table automatically				
<b>Scrambling</b>	Maximum simulcrypt CA	4		
	Standard	EN300 429/ITU-T J.83A/B		
	Connection	Local/remote connection		
<b>Modulation</b>	DVB-C	QAM Channel: 4		
		Standard: EN300 429/ITU-T J.83A/B		
		MER: $\geq 40$ db		
		RF frequency: 50~960MHz, 1KHz step		
	RF output level: -26~-1dBm (81~106 db $\mu$ V), 0.1dBm			
	Symbol Rate: 5.0Msps~7.0Msps, 1ksps stepping			
	Constellation: 16/32/64/128/256QAM			
			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		$\geq 42$ 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 db $\mu$ V), 0.1db step		
<b>Stream output</b>	RF output (F type interface)			
	4 IP output over UDP/RTP, 1*1000M Base-T Ethernet interface(Data1 only)			
<b>System function</b>	Network management(WEB)			
	Chinese and English language			
	Ethernet software upgrade			
<b>Miscellaneous</b>	Dimension(W×L×H)	482mm×410mm×44mm		
	Approx weight	8kg		
	Environment	0~45℃(work); -20~80℃ (Storage)		
	Power requirements	AC 110V $\pm$ 10%, 50/60Hz, AC 220		

		±10%,50/60Hz
	Power consumption	70W

### Order Information

	NDS3542I-8	NDS3542I-12
8 HDMI Input	●	
12 HDMI Input		●