



NDS3544IU

Encoder Modulator



24 HDMI IN

## OSD (Logo/Caption/QR Code) Insertion



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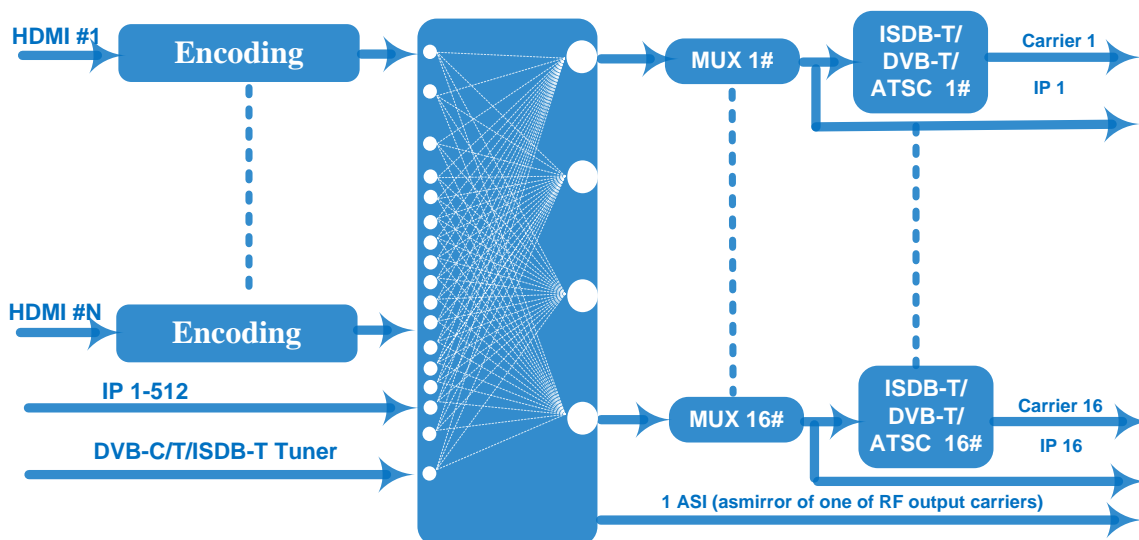
## Product Overview

NDS3544IU 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 16 non-adjacent ISDB-T/DVB-T/ATSC carriers. It also supports 16 MPTS as mirror of 16 carriers through Data2 (GE) port. 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 16 groups multiplexing/ISDB-T/DVB-T/ATSC modulating channels out**
- **Support 1 ASI out as mirror of one of RF output carriers—Optional**
- **Support 16 MPTS IP output over UDP, RTP/RTSP**
- **Support LOGO, Caption and QR code insertion** (Language Supported: 中文, English, العربية, ไทย, हिन्दी, русская, 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

<b>Input</b>	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, RJ45		
<b>Video</b>	Input Resolution	Available Output Resolution	
	1920x1080P@60/59.94	1920x1080/1280x720/720*576/720*480P@60/50/30/25/24	
	1920x1080I@60/59.94	1920x1080/1280x720/720*576/720*480P@30/25/24	
	1920x1080P@50	1920x1080/1280x720/720*576/720*480P@50/30/25/24	
	1920x1080I@50	1920x1080/1280x720/720*576/720*480P@25/24	
	1280x720P@60/59.94	1280x720/720*576/720*480P@60/50/30/25/24	
	1280x720P@50	1280x720/720*576/720*480P@50/30/25/24	
	720*576I@50	720*576/720*480P@25/24	
	720*480I@60	720*480P@30/25/24	
	Encoding	MPEG-4 AVC/H.264, HEVC/H.265	
	Bit-rate	1~15Mbps for each channel	
	Rate Control	CBR/VBR	
	GOP Structure	IP, IBBP, IBBBP	
	<b>Audio</b>	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)	
<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>Modulation</b>	ATSC	Standard	ATSC A/53
		Bandwidth	6M
		Constellation	8VSB
		FEC	RS(208 188)+Trellis
		MER	≥40dB
		ACL	-55 dBc
		RF frequency	50~960MHz, 1KHz step
		RF out	16 non-adjacent carriers output (maximum bandwidth 192MHz)
	RF output level	-20~+10dbm (for all carriers), 0.5db stepping	
	DVB-T	Standard	EN300744
		FFT mode	2K,4K, 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	50~960MHz, 1KHz step	
		RF out	16 non-adjacent carriers output (maximum bandwidth 192MHz)	
		RF output level	-20~ +10 dBm (87~117 dBμV), 0.1db step	
	ISDB-T		Standard	ARIB STD-B31
			Bandwidth	6M
			Constellation	QPSK, 16QAM, 64QAM
			Guard Interval	1/32, 1/16, 1/8, 1/4
			Transmission Mode	2K, 4K, 8K
			Code rate	1/2, 2/3, 3/4, 5/6, 7/8
			MER	≥40dB
			RF frequency	50~960MHz
RF out	16 non-adjacent carriers output (maximum bandwidth 192MHz)			
RF output level	-20dBm~+10dBm, 0.1dB stepping			
<b>Stream output</b>	1 ASI output as mirror of one of RF output carriers- <b>Optional</b> 16 MPTS output (DATA2 port only) over UDP and RTP/RTSP as mirror of 16 ISDB-T carriers, 1*1000M Base-T Ethernet interface			
<b>System function</b>	Network management (WEB)			
	Chinese and English language			
	Ethernet software upgrade			
<b>Miscellaneous</b>	Dimension (W×L×H)	482mm×440mm×44mm		
	Environment	0~45℃(work); -20~80℃ (Storage)		
	Power requirements	AC 110V± 10%, 50/60Hz, AC 220 ± 10%, 50/60Hz		