



NDS3528S/3524S

Encoder Modulator



OSD (Logo/Caption/QR Code) Insertion



Product Overview

NDS3524S/NDS3528S is a professional high integration device which includes encoding, multiplexing, and modulating in one box. It supports 4/8 HDMI inputs and DVB-C/T RF out with 2/4 adjacent carries and 2/4 MPTS out as mirror out of the 2/4 modulation carriers via DATA (GE)



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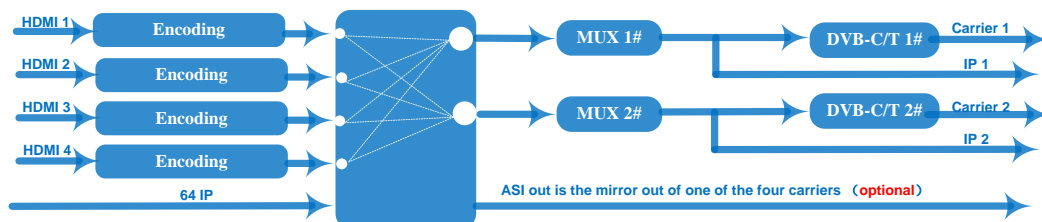
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port. This full function device makes it ideal for small CATV head end system, and it's a smart choice for hotel TV system, entertainment system in sports bar, hospital, apartment...

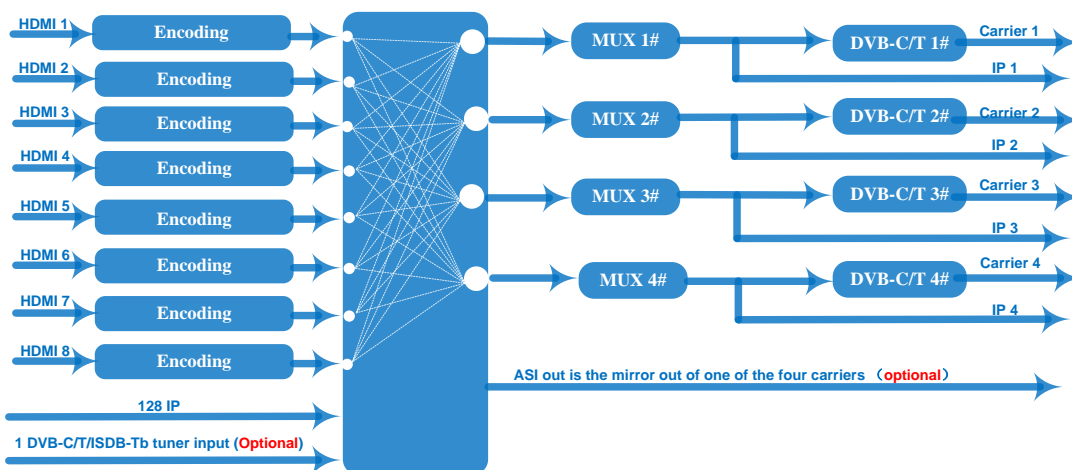
Key features

- 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 HDMI input, MPEG-4 AVC/H.264 Video encoding
- MPEG1 Layer II, LC-AAC, HE-AAC audio encoding format and AC3 Pass Through and support audio gain adjustment
- **1 DVB-C/T/ISDB-Tb tuner input for re-mux (Optional for NDS3528S with DVB-C RF out version)**
- **2/4 groups of multiplexing/modulating output channels (scrambling function optional for NDS3528S with DVB-C RF out version)**
- 2/4 DVB-C or DVB-T carrier out with each carrier channel processing maximum 32 IP from DATA input port
- Support 64/128 IP inputs, 2/4 MPTS IP output over UDP and RTP/RTSP
- Support PID remapping/PSI/SI editing and inserting
- Control via web management, and easy updates via web

Principle Chart



NDS3524S



NDS3528S

Technical Specification

Input	4/8 HDMI inputs; 64/128 IP inputs; 1 DVB-C/T/ISDB-Tb tuner input for re-mux (Optional for NDS3528S with DVB-C RF out version)			
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, LC-AAC, HE-AAC and AC3 Pass Through		
	Sampling rate	48KHz		
	Resolution	24-bit		
	Audio Gain	0-255 Adjustable		
	MPEG-1 Layer 2 bit-rate	48/56/64/80/96/112/128/160/192/224/256/320/384 kbps		
	LC-AAC bit-rate	48/56/64/80/96/112/128/160/192/224/256/320/384 kbps		
	HE-AAC bit-rate	48/56/64/80/96/112/128 kbps		
Multiplexing	Maximum PID Remapping	180 input per channel		
	Function	PID remapping (automatically or manually) Generate PSI/ SI table automatically		
Scrambling (optional for NDS3528S with DVB-C RF out version)	Maximum simulcrypt CA	4		
	Standard	ETR289, ETSI 101 197, ETSI 103 197		
	Connection	Local/remote connection		
Modulation	DVB-C	RF out	2/4*RF DVB-C out (2/4 carriers combined output), F type interface	
		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, 1kpsps stepping	
			J.83A	J.83B
		Constellation	16/32/64/128/256QAM	64/256 QAM
		Bandwidth	8M	6M
	DVB-T	RF out	2/4*RF COFDM DVB-T out (2/4 carriers combined output) ,F type interface	

		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 (77~97 dBμV), 0.1db step
Stream output	2/4 IP MPTS output over UDP/RTP/RTSP, 1*1000M Base-T Ethernet interface		
System function	Network management(WEB)		
	Chinese and English language		
	Ethernet software upgrade		
Miscellaneous	Dimension (W×L×H)	482mm×328mm×44mm	
	Environment	0~45°C(work); -20~80°C (Storage)	
	Power requirements	AC 110V± 10%, 50/60Hz, AC 220 ±10%,50/60Hz	

Order Guide

	NDS3524S	NDS3528S (DVB-C Out)	NDS3528S (DVB-T Out)
HDMI input	4	8	8
IP input	64	128	128
1 DVB-C/T/ISDB-Tb tuner input	N/A	Option as order	N/A
Scrambling function	N/A	Option as order	N/A
IP output	2 MPTS	4 MPTS	4 MPTS
DVB-C/T RF output channel	2	4	4