



NDS3544I

Encoder Modulator



OSD (Logo/Caption/QR Code) Insertion



Product Overview

NDS3544I is a professional high integration device which includes encoding, multiplexing, scrambling and modulation. It supports 8/12/16/20/24 HDMI input, one DVB-C (DVB-T/ISDB-T/ATSC optional) tuner input and maximum 512 IP input with Data1 (GE) port. It



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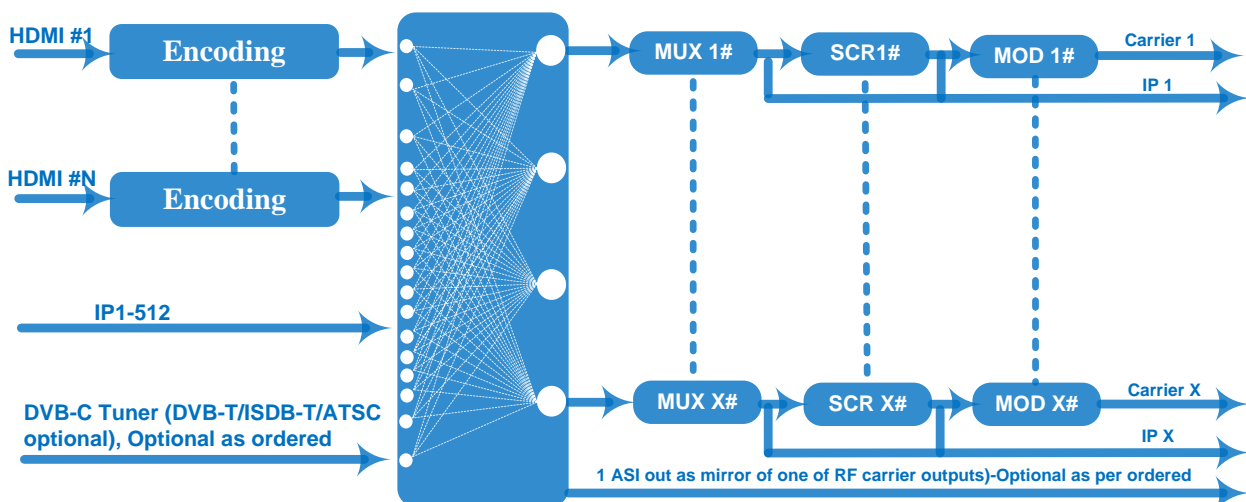
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also supports DVB-C RF out with 16 non-adjacent carriers or DVB-T/ATSC RF out with 8 non-adjacent carriers, or ISDB-T RF out with 6/16 non-adjacent carriers, and supports 16/8/6/16 MPTS as mirror of 16/8/6 /16 carriers through Data2 (GE) output port. 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

- 8/12/16/20/24 HDMI input, MPEG-4 AVC/H.264 Video encoding
- 1DVB-C (DVB-T/ISDB-T/ATSC optional) tuner input for re-mux – Optional as ordered
- **Each carrier out channel process maximum 32 IP from DATA1 input port (UDP&RTP protocol)**
- MPEG1 Layer II Audio encoding and support audio gain adjustment
- Support 16 groups multiplexing/Scrambling/DVB-C modulating
- Support 8 groups multiplexing/DVB-T/ATSC modulating---Optional
- Support 6 (or 16) groups multiplexing/ISDB-T modulating---Optional
- Support 1 ASI out as mirror of one of RF output carriers—**Optional**
- Support 16 MPTS IP (DATA2 port only) output over UDP, RTP/RTSP –DVB-C RF out
- **Support 8 MPTS IP (DATA2 port only) output over UDP, RTP/RTSP-- DVB-T/ATSC RF out**
- **Support 6 (or 16) MPTS IP (DATA2 port only) output over UDP, RTP/RTSP-- ISDB-T RF out**
- **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 Specifications

Input	8/12/16/20/24 HDMI inputs for option				
	1 DVB-C (DVB-T/ISDB-T/ATSC optional) Tuner for re-mux, F type interface – Optional as ordered				
	512 IP input over UDP and RTP, DATA1, RJ45—DVB-C RF out				
	256 IP input over UDP and RTP, DATA1, RJ45—DVB-T/ATSC RF out				
192 IP input over UDP and RTP, DATA1, RJ45—ISDB RF out					
Video	Resolution	Input	1920×1080_60P, 1920×1080_60i, 1920×1080_50P, 1920×1080_50i, 1280×720_60P, 1280×720_50P, 720×576_50i,720×480_60i,		
		Output	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)				
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 (For DVB-C output program only)	Maximum simulcrypt CA	4			
	Standard	ETR289, ETSI 101197, ETSI 103197			
	Connection	Local/remote connection			
Modulation	DVB-C	QAM Channel	16 non-adjacent carriers output (maximum bandwidth 192MHz)		
		Standard	EN300 429/ITU-T J.83A/B		
		MER	≥40db		
		RF frequency	50~960MHz, 1KHz step		
		RF output level	-20~+10dbm (87~117 dbμV), 0.1db step		
		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,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	8 non-adjacent carriers output (maximum bandwidth 192MHz)
		RF output level	-20~ +10 dBm (87~117 dbμV), 0.1db step
	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	8 non-adjacent carriers output (maximum bandwidth 192MHz)
		RF output level	-20~+10dbm (for all carriers), 0.5db stepping
	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, 1KHz step
		RF out	6 (or 16) non-adjacent carriers output (maximum bandwidth 192MHz)
RF output level	-20dBm~+10dBm, 0.1dB stepping		
Stream output	1 ASI output as mirror of one of RF output carriers-Optional		
	16 MPTS output over UDP and RTP/RTSP as mirror of 16 DVB-C carriers,		
	8 MPTS output over UDP and RTP/RTSP as mirror of 8 DVB-T/ATSC carriers(Optional)		
	6 MPTS output over UDP and RTP/RTSP as mirror of 6 ISDB-T carriers(Optional)		
	16 MPTS output over UDP and RTP/RTSP as mirror of 16 ISDB-T carriers(Optional)		
1*1000M Base-T Ethernet interface			
System function	Network management (WEB)		
	Chinese and English language		
	Ethernet software upgrade		
Miscellaneous	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	

Ordering Information

		IP input	IP output	RF carriers	Scrambling
DVB-C out		512	16	16	Support
DVB-T out		256	8	8	N/A
ATSC out		256	8	8	N/A
ISDB-T out	V1	192	6	6	N/A
	V2	192	16	16	N/A