



NDS3536S (V2)

Encoder Modulator



OSD (Logo/Caption/QR Code) Insertion



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Address: No. 10 & No. 12, Wuxing Fourth Road, Wuhou District, Chengdu 610045, Sichuan, PR China

Website: www.dsdvb.com/English | Tel: +86-028-85558928 | Fax: +86-028-85585255 | Email: sunyu@dsdvb.com

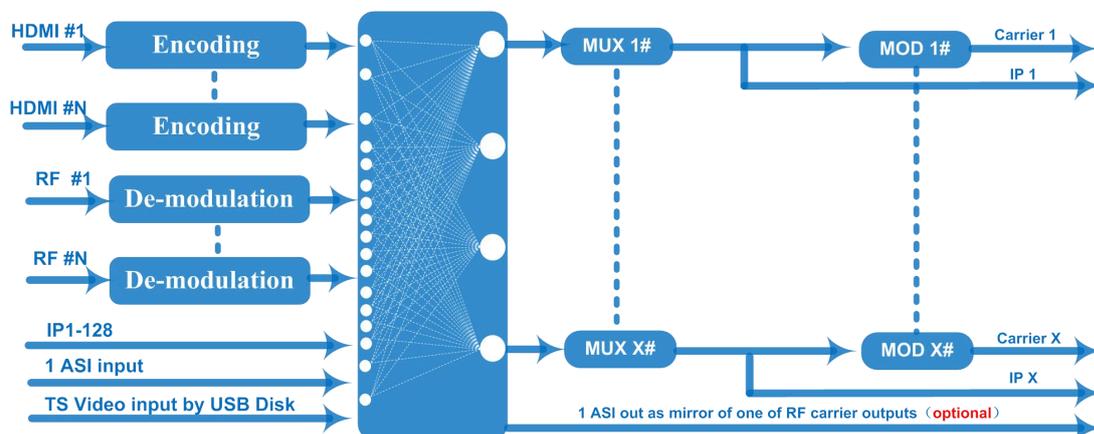
Product Overview

NDS3536S (V2) is a professional and high integration device which includes encoding (and de-modulation), multiplexing, and modulation functions in one case. It supports 8/16/24 HDMI (or HDMI plus tuner mix input) inputs, 1 ASI input, 1 USB player input and 128 IP inputs via the GE port, and output by multiple DVB-C (or DVB-T/ATSC/ISDB-T optional) carrier channels. It also supports MPTS output as mirror of carriers through the GE port and 1 ASI out as mirror of one of the carriers. This full function device makes it ideal for a small CATV head end system, and it's a smart choice for hotel TV system, entertainment system in sports bar, hospital, apartment...

Key features

- 8/16/24 HDMI (or HDMI plus DVB-S/S2/S2X/C/T/T2/ISDB-T tuner) inputs,
- HEVC/H.265, MPEG-4 AVC/H.264 Video encoding
- 1 ASI input for re-mux
- 1 USB Player (Insert the USB Flash drive with “xxx.ts” videos in NDS3536S and play back the content in an easy way; file system FAT 32)
- 128 IP input over UDP and RTP via GE port
- Each carrier out channel process maximum 32 IP from the GE port(UDP&RTP protocol)
- MPEG1 Layer II, LC-AAC and HE-AAC Audio encoding, AC3 Pass Through and audio gain adjustment
- Support 32/36/40/44/48ch DVB-C RF out (8/16/20/24/28ch DVB-T RF out, 32/36/40/44/48ch ATSC RF out , or 8/16/20/24ch ISDB-T RF out for option, as per order)
- Support 1 ASI out as mirror of one of RF output carriers---Optional
- Support IP MPTS or SPTS output over UDP, RTP/RTSP
- Support LOGO, Caption and QR code insertion(Language Supported:
中文,English,العربية,ไทย,हिन्दी, р у с с к и й, 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	8/16/24 HDMI inputs for option (or HDMI and different Tuner mix input, details pls check below order guide) 1 ASI in for re-mux 1 USB Player input for re-mux (“xxx.ts” video) 128 IP input over UDP and RTP, GE port, RJ45			
Video (HDMI Input)	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	HEVC/H.265, 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 (HDMI Input)	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		
Tuner Section	DVB-S	Input Frequency	950-2150MHz	
		Symbol Rate	0.5~45 Msps	
		Constellation	QPSK	
		FEC	1/2, 2/3, 3/4, 5/6, 7/8	
	DVB-S2	Input Frequency	950-2150MHz	
		Symbol Rate	QPSK/8PSK/16APSK: 0.5~45 Msps 32APSK: 0.5~40 Msps	
		Constellation	QPSK/8PSK/16APSK/32APSK	
		FEC	QPSK: 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10 8PSK: 3/5, 2/3, 3/4, 5/6, 8/9, 9/10 16APSK: 2/3, 3/4, 4/5, 5/6, 8/9, 9/10 32APSK: 3/4, 4/5, 5/6, 8/9	
		Max input bitrate per tuner	≤170 Mbps	
	DVB-S2X	Symbol Rate	QPSK/8PSK/16APSK: 0.5~45 Msps; 8APSK/32APSK: 0.5~40 Msps	
		Constellation	QPSK/8PSK/16APSK/8APSK/32APSK	
		FEC	QPSK: 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10, 13/45, 9/20, 11/20	

			8PSK: 3/5, 2/3, 3/4, 5/6, 8/9, 9/10, 23/36, 25/36, 13/18 8APSK: 5/9-L, 26/45-L 16APSK: 2/3, 3/4, 4/5, 5/6, 8/9, 9/10, 1/2-L, 8/15-L, 5/9-L, 26/45, 3/5, 3/5-L, 28/45, 23/36, 2/3-L, 25/36, 13/18, 7/9, 77/90 32APSK: 3/4, 4/5, 5/6, 8/9, 2/3-L, 32/45, 11/15, 7/9	
		Max input bitrate per tuner	≤170 Mbps	
		Signal Strength	-65~-25dBm	
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	QAM Channel	32/36/40/44/48 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~+3dbm, 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	8/16/20/24/28 non-adjacent carriers output (maximum bandwidth 192MHz)	
		RF output level	-28~ -3dBm, 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	32/36/40/44/48 non-adjacent carriers output (maximum bandwidth 192MHz)	
	RF output level	-20~+3dbm(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	8/16/20/24 non-adjacent carriers output (maximum bandwidth 192MHz)
		RF output level	-20dBm~+3dBm, 0.1dB stepping
Stream output	1 ASI output as mirror of one of RF output carriers (Optional) MPTS output over UDP and RTP/RTSP as mirror of modulation carriers 64 SPTS output (available for models of 48ch DVB-C, 28ch DVB-T, 48ch ATSC and 24ch ISDB-T) , 1*1000M Base-T Ethernet interface, GE port		
System function	Management: web-based NMS, one NMS port manage all input modules, and LCD+Keyboard manage		
	Chinese and English language		
	Ethernet software upgrade		
Miscellaneous	Dimension(W×L×H)	482mm×328mm×44mm	
	Environment	0~45℃(work); -20~80℃ (Storage)	
	Power requirements	AC 110V± 10%, 50/60Hz, AC 220 ± 10%, 50/60Hz	

Ordering Guide

Input Section:

	HDMI	DVB-S2 /S2X	DVB-C/T/T2/ ISDB-T
Option 1	8	/	/
Option 2	16	/	/
Option 3	24	/	/
Option 4	8	8	/
Option 5	8	16	/
Option 6	16	8	/
Option 7	8	/	8
Option 8	8	/	16
Option 9	16	/	8
Option 10	8	8	8
Option 11	16	4	4

Output Section:

RF output standard		IP output	RF carrier channels
DVB-C out	V1	16x MPTS	16
	V2	32/36/40/44/48x MPTS	32/36/40/44 /48
DVB-T out	V1	8x MPTS	8
	V2	8/16/20/24/28x MPTS	8/16/20/24/ 28
ATSC out	V1	16x MPTS	16
	V2	32/36/40/44/48x MPTS	32/36/40/44 /48
ISDB-T out		8/16/20/24x MPTS	8/16/20/24



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🌐 www.dsdvb.com/English ☎ Tel: +86-028-85558928 📠 Fax: +86-028-85585255 ✉ Email: sunyu@dsdvb.com