



Chengdu Dexin Digital Technology Co., Ltd.

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NDS32xx Series MPEG4 AVC/H.264 Encoder

		NDS 3211H	NDS 3211H-2	NDS 3214H	NDS 3224	NDS 3224-4	NDS 3224D	NDS 3224D-4
Encoding	Channel	1			4			
	Standard	MPEG4 AVC/H.264						
Resolution	1920*1080i	•	•	•				
	1280*720p							
	720*480i	•	•		•	•	•	•
	720*576i							
Input	HDMI	•	•	•				
	HD/SD-SDI	• ¹	• ¹				• ²	• ²
	YPbPr	•	•					
	CVBS	•	•		•	•		
	RCA	•	•		•	•		
	XLR	•	•					
	AES/EBU	•	•					
	ASI ³			•	•		•	
Output	ASI(MPTS ⁴)			•	•		•	
	UDP(MPTS ⁴)			•	•		•	
	ASI(SPTS ⁵)	•	•			• ⁶		• ⁶
	UDP(SPTS ⁵)	•	• ⁷			• ⁸		• ⁸
Management	Keyboard	•	•	•	•	•	•	•
	NMS	•	•	•	•	•	•	•

Notes:

1. Supports both HD-SDI and SD-SDI with embedded audio.
2. Supports SD-SDI with embedded audio only.
3. An ASI input which can multiplexed with local encoded programs.
4. MPTS : Multiple Program Transport Stream.
5. SPTS : Single Program Transport Stream.
6. Supports only 1 SPTS of 4 selected to output.
7. Supports 2 SPTS(same program) with different IP address or port.
8. Supports 4 SPTS(different programs) with different IP address or port.



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NDS320x Series MPEG2/4 Encoder

		NDS 3201	NDS 3201I	NDS 3204	NDS 3204I	NDS 3204I-4	NDS 3204S
Encoding	Channel	1	1	4	4	4	4
	Standard	MPEG2					MPEG2/4
Resolution	720*480i,720*576i(D1)	•	•	•	•	•	•
	544*480 (3/4D1 NTSC)	•	•	•	•	•	•
	544*576 (3/4D1 PAL)	•	•	•	•	•	
	352*480 (HD1 NTSC)	•	•	•	•	•	•
	352*576, (HD1 PAL)	•	•	•	•	•	
	480*480,480*576 (2/3D1)	•	•	•	•	•	
	352*240,352*288(SIF)	•	•	•	•	•	•
	704*576,640*576,320*288,320*240 176*288,176*240,176*144,176*120						•
Input	SD-SDI ¹		•				
	S-VIDEO	•	•				
	CVBS	•	•	•	•	•	•
	RCA	•	•	•	•	•	•
	XLR	•	•				
	AES/EBU		•				
	ASI ²				•		•
Output	ASI(MPTS ³)			•	•		•
	UDP(MPTS ³)				•		
	ASI(SPTS ⁴)	•	•			• ⁵	
	UDP(SPTS ⁴)		•			•	
	E1		4				
	Video Available ⁶	•	•	•	•	•	•
Management	Keyboard	•	•	•	•	•	•
	NMS	•	•	•	•	•	•

Notes:

1. Supports SD-SDI with embedded audio.
2. An ASI input which can multiplexed with local encoded programs.
3. MPTS : Multiple Program Transport Stream.
4. SPTS : Single Program Transport Stream.
5. Supports only 1 SPTS of 4 selected to output.
6. This function can output encoded audio only served as an audio encoder.



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NDS24xx Series Terrestrial Modulator

		NDS2401A	NDS2402A	NDS2403	NDS2405
Modulation channel		1			
Modulation standard		DVB-T (EN 300 744)	DMB-T GB20600-2006	ATSC-T (ATSC A53)	ISDB-T (ARIB B31)
Input	ASI	4	4	2	4
	SMPTE			2	
	GPS 10M,1PPS	•	•		•
Modulation	Constellation	QPSK, 16/64QAM	4QAM-NR, 4/16/32/64QAM	8VSB	DQPSK,QPSK 16/64QAM
	FEC	1/2,2/3,3/4, 5/6,7/8	LDPC+BCH 0.4,0.6,0.8	Trellis 2/3	1/2,2/3,3/4, 5/6,7/8
	Bandwidth	6/7/8M	8M	6M	6/7/8M
	Carrier	OFDM 2/4/8K	1, OFDM 3780	1	OFDM 2/4/8K
Output	RF Range	36~960Mhz 1hz step			
	RF level	Max ≥ +3dbm 0.1db step			
	RF MER	≥ 40db	≥ 40db	≥ 40db	≥ 40db
Hierarchical transmission		• ¹			• ²
SFN Support		•	•		•
Digital Predistortion	Linear	•	•	•	•
	Non-linear	•	•		•
Management	Keyboard	•	•	•	•
	NMS	•	•	•	•

Notes:

1. Supports HP and LP Hierarchical transmission mode.
2. Supports max 3 layers of multiple OFDM segments that are channel-coded differently.



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NDS3xxx Series Modulator

		NDS 3303	NDS 3302	NDS 3313	NDS 3340	NDS 3401	NDS 3402	NDS 3402C	NDS3402 A
Modulation channel		1			4	1			
Modulation standard		DVB-C ITU-T J.83A/B/C			DVB-C J.83A	DVB-S (EN 300421)	DVB-S/S2 (EN 300421,EN 302 307)		
Input	ASI	1	3	3	4 ⁵	1	2	2	
	SPI					1			
	DS3	1 ¹							
	Tuner ²		1	1	4 ⁵				
	Ext 10M						•	•	
Multiplexing³				•					
Output	ASI loop	2 ¹					2	2	
	RF port	F (75Ω)					N (75Ω)		
	IF Range	36.0/36.15Mhz						50~100Mhz 1hz step	
	IF level	Max ≥ -22dbm 0.5db step						Max ≥ 0dbm 0.5db step	
	RF Range	48~870Mhz 10khz step			48~860Mhz 1khz step	950~2150Mhz 450~950Mhz 10khz step	950~2150Mhz 10khz step		
	RF Level	Max ≥ 3dbm 0.5db step			Max ≥ 6dbm 0.5db step	Max ≥ 0dbm 1db step	Max ≥ 0dbm 0.5db step		
	Power & Ref clock ⁴							•	
	MER	≥ 34db			≥ 40db		≥ 36db		≥ 40db
Management	Keyboard	•	•	•	•	•	•	•	•
	NMS	•	•	•	•	•	•	•	•

Notes:

1. This function is optional.
2. DVB-C/DVB-S/DVB-S2 tuner selectable.
3. All input stream can multiplexed into one stream for modulator.
4. 24V/4A power and 10M reference clock integrated in RF output port.
5. 4 input port can select ASI or DVB-S/S2/C/T tuner.



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NDS31xx Series Multiplexer

		NDS3101	NDS3102	NDS3102I	NDS3105	NDS3105A
Standard		DVB			ISDB	
Multiplexing channel		1	2	2	1	2
Input channel		8	8	12	12	6X2
Input	ASI	•	•	•	•	•
	GPS 10M/1PPS				•	•
Output	ASI	•	•	•	•	•
	UDP			• ¹		
PID remap	Auto	•	•	•	•	•
	Manual	•	•	•	•	•
Input TS format	188	•	•	•	•	•
	204	•	•	•	•	•
Output TS format	188	•	•	•		
	204				•	•
PCR Adjustable		•	•	•	•	•
PSI/SI rebuild		•	•	•	•	•
PSI/SI edit		•	•	•	•	•
PID transparent transport		•	•	•	•	•
Max PIDs per input²		64	64	128	128	128
Output Stream Rate		1~108Mbps	1~108Mbps	1~210Mbps	32.5079 Mbps	32.5079 Mbps
Management	Keyboard	•	•	•	•	•
	NMS	•	•	•	•	•

Notes:

1. 2 separate UDP streams in 2 separate RJ45 or SPF.
2. The max number of PID per input that can be remapped and send to output.



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NDS37xx Series Scrambler

		NDS3701	NDS3702
Input	ASI	1	1
Output	ASI	•	•
Loop out	ASI		2
Input TS format	188	•	•
	204	•	•
Output TS format	188	•	•
	204		
PCR Adjustable		•	•
PSI/SI rebuild		•	•
PSI/SI Edit		•	•
Max. SimulCrypt CAS		4	4
Max PIDs per input		unlimited	unlimited
Output Stream Rate		1~54Mbps	1~54Mbps
Ethernet port		1 ¹	2 ²
Management	Keyboard	•	•
	NMS	•	•

Notes:

1. NDS3701 has 1 RJ45 port for both data and management.
2. NDS3702 has 2 separate RJ45 ports. One for data and another for management.



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NDS39xx Series IRD

		NDS 3900	NDS 3900T	NDS 3931	NDS 391X	NDS 392X	NDS 394X	NDS 395X
Decoding	MPEG2	•	•	•	•	•	•	•
	H.264				•			
Resolution	1920*1080i 1280*720p				•			
	720*480i 720*576i	•	•	•	•	•	•	•
	ASI				•	•	•	•
Input	DVB-C				3911	3921	3941	3951
	DVB-S	•	•	•	3912	3922	3942	3952
	DVB-T				3914	3924	3944	3954
	DVB-S2				3915	3925	3945	3955
	ISDB-T				3916	3926	3946	3956
	CVBS	•	•	•	•	•	•	•
Video Output	YPbPr				•			
	SDI				• ¹	• ²		• ³
	HDMI				•			
	S-Video					•	•	•
	Stereo Unbalanced	•	•	•	•	•	•	•
Audio Output	Stereo Balanced				•	•	•	•
	SPDIF				•			
	ASI		•	•	•	•	•	•
TS Output	IP				•	•		•
	NMS				•	•		•
CI Slot					•	•	•	•
RS232 Interface							•	•

Notes:

1. Supports both HD-SDI and SD-SDI output.
2. Supports SD-SDI output only.
3. Alternative between ASI output and SD SDI output