

IRD Series

NDS397X/NDS399X HD IRD



Outline

NDS397X/NDS399X HD IRD is Dexin's new design IRD with LCD video monitor equipped on the front panel. It can receive signals from tuner (DVB-C, DVB-(T), DVB-S/S2, DMB-T, ISDB-T, and ATSC-T optional), ASI and IP sources. After multiplexing and de-encryption with CAM module, it gives content out through ASI, IP as well as various video/audio interfaces. Its video/audio outputs support professional HD/SD-SDI, YPbPr, HDMI, stereo balanced audio, stereo unbalanced audio and S/PDIF digital audio and CVBS, which can greatly satisfy the professional users' needs. With the CAM/CI slot equipped, NDS397X/NDS399X supports one channel (Tuner, ASI or IP) de-scrambling and give transparent signal output. User can operate the device by using front panel LCD or NMS/SNMP software or Webpage-based NMS. Moreover, users can choose to have an optional ASI output which can pass through the encryption data source directly from tuner.

Features

- Support DVB-C, DVB-(T), DVB-S/S2, DMB-T, ISDB-T, and ATSC-T RF Input optional
- Support LCD display for decoding video
- Support MPEG-2 & H.264 video decoding



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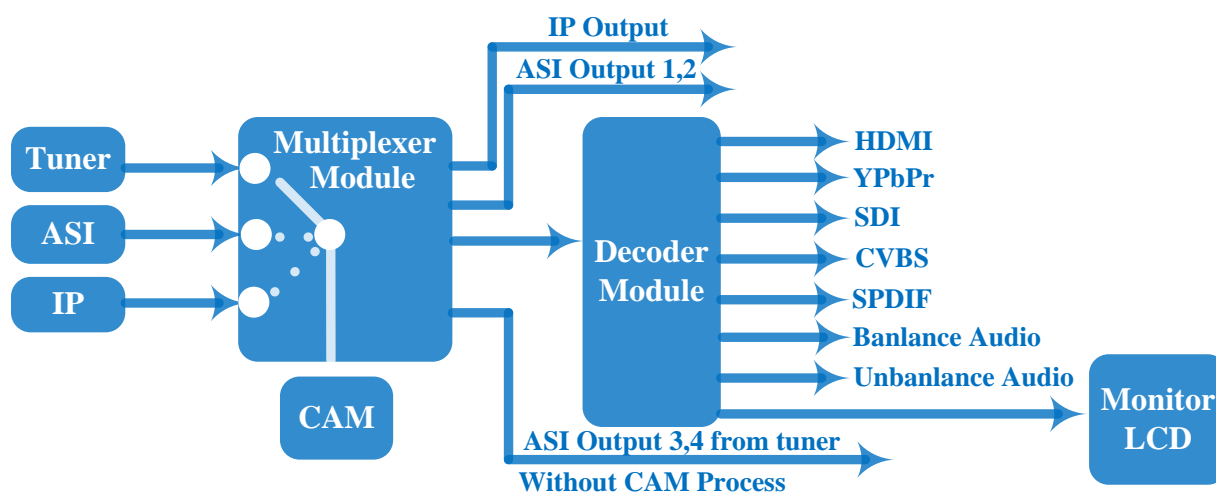
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- Support AC3 pass through (for SDI interface only)
- Re-multiplexer embedded
- Support Tuner, IP, ASI Input at the same time
- Support IP, ASI, Decoding output at the same time
- Support 8xSPTS/32xSPTS and 1 IP MPTS output
- Support CAM/CI card insert
- Support BISS descrambling: Mode 1 and Mode E
- Support CC (Closed Caption) – for SDI and CVBS interfaces
- Support Front Panel and Web management

Principle Chart



Specifications

Input Interface	Tuner	1 Tuner (DVB-C, DVB-(T), DVB-S/S2, DMB-T, ISDB-T, and ATSC-T optional)	
	ASI	1 ASI IN (support 188/204 package format)	
	IP	1 IP (100M, RJ45 Port) UDP, RTP---NDS397X 1 IP (100M, RJ45 Port) UDP ---NDS399X	
Demodulating Section	DVB-C	Standard	J.83A(DVB-C), J.83B, J.83C
		Frequency In	30 MHz~1000 MHz



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		Constellation	16/32/64/128/256 QAM		
	DVB-(T)	Frequency In	30MHz ~999.999 MHz		
		Bandwidth	6/7/8 M bandwidth		
	DVB-S	Frequency In	950-2150MHz		
		Symbol rate	1-45Msps		
		Signal Strength	- 65- -25dBm		
		Constellation	1/2, 2/3, 3/4, 5/6, 7/8 QPSK		
	DVB-S2 (Version 1)	Frequency In	950-2150MHz		
		Symbol rate	1~45 Msps		
		FEC	1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10		
		Constellation	QPSK, 8PSK		
	DVB-S2 (Version 2)	Frequency In	950-2150MHz		
		FEC	1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10		
		Symbol rate	Constellation	FEC	
			QPSK, 8PSK		1~45 Msps
			16APSK	2/3	1~45 Msps
				3/4	1~41 Msps
				4/5	1~38 Msps
				5/6	1~37 Msps
				8/9	1~35 Msps
9/10				1~35 Msps	
32APSK			3/4	1~32 Msps	
			4/5	1~31 Msps	
			5/6	1~30 Msps	
			8/9	1~28 Msps	
			9/10	1~28 Msps	

Output	ASI Output	2 ASI output (after multiplexer)		
		2 ASI output (tuner input pass through)		
	IP output	Protocol: UDP, RTP/RTSP		
		1 MPTS or 8 SPTS (100M)		NDS397x only
		1 MPTS(100M) & 32 SPTS (1000M)		NDS399x only
		1 MPTS(100M) & 20 SPTS (1000M) with BISS function		
	Video	1xCVBS(BNC): 576i@25fps, 480i@29.97fps		

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	Output	1xYPbPr(BNC): 1080i@25, 29.97, 30fps; 720p@50, 59.94fps
		1xHD/SD-SDI(BNC): 1080i@25, 29.97, 30fps; 720p@50, 59.94fps; 576i@25fps; 480i@29.97fps
		1 x HDMI: 1080i@25, 29.97, 30fps; 720p@50, 59.94fps; 576i@25fps; 480i@29.97fps
	Audio Output	Stereo unbalanced audio: BNC interface Stereo balanced audio: XLR interface Digital audio: SPDIF
Video Decoding	MPEG-2, H.264	
Audio Decoding	MPEG1 layer 2, AC3, HE-AAC(v2), LC-AAC	
BISS De-scr	Mode 1, Mode E	
NMS Port	Ethernet Port	10/100M
	Protocols	NMS: TCP/IP
System	Management: front panel (LCD + Keyboard); Web-based NMS Management	
	English and Chinese interface conversion	
	Ethernet port for CPU/FPGA upgrade USB port for decoder upgrade	
	LCD Monitor for decoding video	
Miscellaneous	Dimensions	482mm*455mm*44.5mm (L×W×H)
	Approx weight	3.2kg
	Power	<20W(Max)
	Temperature	0~45℃(Operating), -20~80℃(Storage)

Order Information:

NDS3971/ NDS3991 DVB-C HD IRD
 NDS3972/ NDS3992 DVB-S HD IRD
 NDS3973/ NDS3993 DMB-T HD IRD
 NDS3974/ NDS3994 DVB-T HD IRD
 NDS3975/ NDS3995 DVB-S2 HD IRD
 NDS3976/ NDS3996 ISDB-T HD IRD
 NDS3977/ NDS3997 ATSC HD IRD
 NDS3978/ NDS3998 DVB-(T) HD IRD



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