



NDS3975C

HD IRD



Product Outline

NDS3975C HD IRD is DEXIN's new product which can receive signals from tuners (DVB-C, DVB-T, DVB-S/S2/S2X, ATSC-T, ISDBT optional), ASI and IP. After demodulating, de-scrambling, re-multiplexing and decoding, it gives content out through various video/audio interfaces (HDMI, CVBS, 3G-SDI) or ASI or IP.

This IRD is featured with two CAM/CI slots and BISS which supports to descramble encrypted Tuner, ASI or IP signals.

Key Features

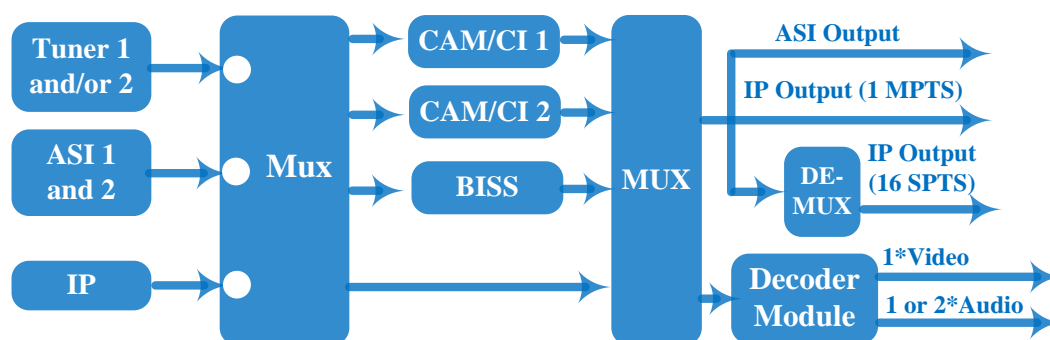
- **Demodulator + descrambler +re-mux+ decoder in one box**
- **1 or 2 Tuner inputs (DVB-C/T/S/S2/S2X/ATSC-T/ISDB-T optional) for option**
- **2 ASI & 16 IP UDP/RTP input for re-mux**
- **Support 1ch HDMI/CVBS/3G-SDI video out (SDI1 and SDI2 mirrored out)**
- **Support 1ch or 2ch Audios out for option**
- **Support HD/SD MPEG2, MPEG4 AVC/H.264, HEVC/H.265 and AVS/AVS+ decoding**



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- Support MPEG 1 Layer II, LC-AAC, HE-AAC, HE-AAC V2, Dolby Digital/Dolby Digital Plus decoding and AC3 passthrough
- IP (1 *MPTS & 16* SPTS) output over UDP and RTP/RTSP; 2 ASI mirrored out as a copy of the IP MTPS
- Each CAM can decrypt multiple programs from Tuner/ASI/IP
- BISS descrambling (Up to 120Mbps)
- Support CC (EIA608, EIA708) & Teletext (Applicable for SDI port)
- Support maximum 128 PID mapping per input
- LCD/Keyboard and web-based NMS management
- Updates via web

Principle Chart



Technical Specifications

Input		1 or 2 *Tuner for option, F type, (DVB-C/T/S/S2/S2X/ATSC-T/ISDB-T optional as per order) 2*ASI input for re-mux, BNC interface 16*IP input for re-mux (UDP/RTP), RJ45			
Tuner Section	Multi-mode tuners switchable	Cable	Input Frequency	60~890 MHz	
			Standard	DVB-C/J.83A, J.83C	J.83B
			Constellation	16/32/64/128/256 QAM	64/256 QAM
			Symbol rate	1.0~7.0Msps	
		DVB-T	Input Frequency	60~890 MHz	
			Constellation	QPSK, 16QAM, 64QAM	
			Bandwidth	6/7/8 M	
		ISDB-T	Input Frequency	60~890 MHz	
Constellation	DQPSK, QPSK, 16QAM, 64QAM				

	Satellite	DVB-S	Input Frequency	950~2150MHz
			Symbol rate	0.5~45Msps
			Signal Strength	- 65- -25dBm
			FEC	1/2, 2/3, 3/4, 5/6, 7/8
			Constellation	QPSK
		DVB-S2	Input Frequency	950~2150MHz
			Symbol rate	QPSK/8PSK/16APSK: 0.5~45Msps 32APSK: 0.5~40Msps;
			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, 9/10
			Constellation	QPSK, 8PSK, 16APSK, 32APSK
		DVB-S2X	Input Frequency	950~2150MHz
			Symbol rate	QPSK/8PSK/16APSK: 0.5~45Msps 8APSK/32APSK: 0.5~40Msps
			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 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
Constellation	QPSK, 8PSK, 8APSK, 16APSK, 32APSK			
ATSC	ATSC	Input Frequency	54~858MHz	
		Bandwidth	6M	
		Constellation	8VSB	
Descrambling	CAM/CI Qty		2	
	BISS Mode		Mode 1, Mode E (up to 120Mbps)	
Output	IP (1*MPTS & 16*SPTS) out over UDP, RTP/RTSP.			
	1000Base-T Ethernet interface (unicast / multicast)			
	2×ASI mirrored out, BNC interface			
	Decode Output	Video	Interface: 1* CVBS/HDMI/3G-SDI (SDI1 and SDI2 mirrored out)	
			Decode: MPEG-2, MPEG4 AVC/H.264, HEVC/H.265 and AVS/AVS+	
Resolution:1920×1080_60p, 1920×1080_60i, 1920×1080_50p; 1920×1080_50i; 1280×720_60P, 1280×720_50P; 480i, 576i				
Chroma: 4:2:0				

		Audio	Interface: HDMI, SDI, DB15 to (XRL, RCA, AES, S/PDIF)
			Number of channels: 1 or 2 for option (as per order)
			Decode: MPEG 1 Layer II, LC-AAC, HE-AAC, HE-AAC V2, Dolby Digital/ Dolby Digital Plus
			Audio Output Mode: Left, Right, Stereo audio
System	Local interface		LCD + control buttons
	Remote management		Web-server Management
	Language		English
	Upgrade		USB, web management
Miscellaneous	Dimension		482*300*44.5mm (W×L×H)
	Approx weight		3.5kg
	Environment		0~45℃(work); -20~80℃ (Storage)
	Power requirements		100~240VAC, 50/60Hz
	Power consumption		20W

Order Guide

Please specify both **Tuner Input** and **Audio out channel** options when you place order:

Tuner Input	Option 1	1*DVB-S/S2/S2X tuner
	Option 2	1*DVB-C/T/ISDB-T tuner
	Option 3	1*ATSC-T tuner
	Option 4	2*DVB-S/S2/S2X tuner
	Option 5	2*DVB-C/T/ISDB-T tuner
	Option 6	2*ATSC-T tuner
	Option 7	1*DVB-S/S2/S2X tuner + 1*DVB-C/T/ISDB-T tuner
	Option 8	1*DVB-S/S2/S2X tuner + 1* ATSC-T tuner
	Option 9	1*DVB-C/T/ ISDB-T tuner + 1*ATSC-T tuner

Audio Out Channel	Option 1	1*Audio out
	Option 2	2*Audio out