

# IR-975C

## Integrated Receiver Decoder



### Product Overview

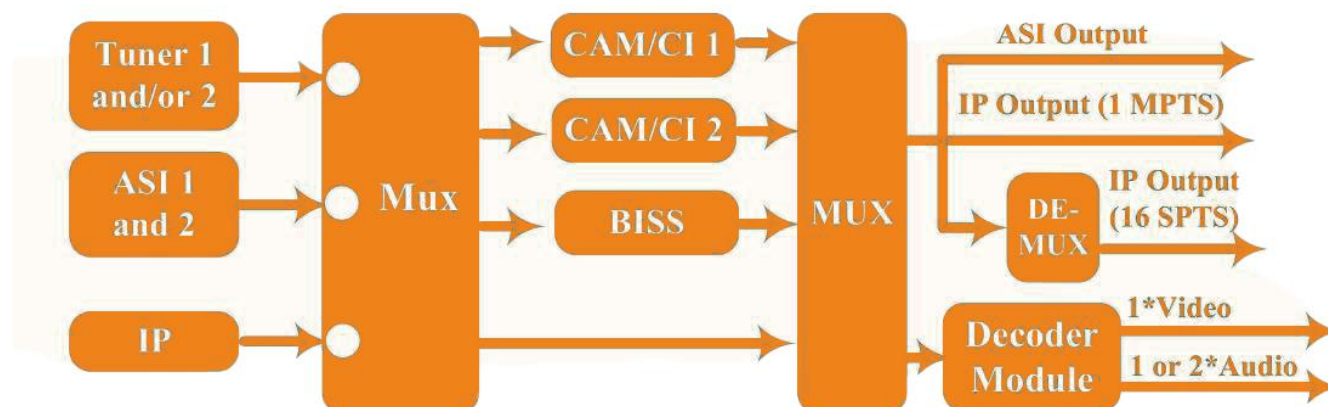
IR-975C HD IRD is an integrated receiver decoder which can receive signals from tuners (DVB-C, DVB-T, DVB-S/S2/S2X, ATSC-T, ISDBT optional), ASI and IP. After demodulating, de-scrambling, re-multiplexing and decoding, it gives content out through various video/audio interfaces (HDMI, CVBS, 3G-SDI) or ASI or IP. This IRD is featured with two CAM/CI slots and BISS which can descramble encrypted Tuner, ASI or IP signals.

### Key Features

- Demodulator + Descrambler + Multiplexer + 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

- Support MPEG 1 Layer II, LC-AAC, HE-AAC, HE-AAC V2, Dolby Digital/Dolby Digital Plus decoding and AC3 pass-through
- IP (1 \*MPTS & 16\* SPTS) output over UDP and RTP/RTSP; 2 ASI mirrored out as a copy of the IP MPTS
- 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

## Block Diagram:



## Technical Specifications

<b>Input</b>		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			
<b>Tuner Section</b>	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	0.5~45Msp/s
			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: 0.5~45Msp/s 32APSK: 0.5~40Msp/s;
			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: 0.5~45Msp/s 8APSK/32APSK: 0.5~40Msp/s
			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

			Bandwidth	6M
			Constellation	8VSB
<b>Descrambling</b>	CAM/CI Qty	2		
	BISS Mode	Mode 1, Mode E (up to 120Mbps)		
<b>Output</b>	IP (1*MPTS & 16*SPTS) out over UDP, RTP/RTSP. 1000Base-T Ethernet interface (unicast / multicast)			
	2xASI 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:1920x1080_60p, 1920x1080_60i, 1920x1080_50p; 1920x1080_50i; 1280x720_60P, 1280x720_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		
<b>System</b>	Local interface	LCD + control buttons		
	Remote management	Web-server Management		
	Language	English		
	Upgrade	USB, web management		
<b>Miscellaneous</b>	Dimension	482*300*44.5mm (WxLxH)		
	Approx weight	3.5kg		
	Environment	0~45°C(work) ; -20~80°C(Storage)		
	Power requirements	100~240VAC, 50/60Hz		
	Power consumption	20W		

## Ordering Information

<b>Tuner Input</b>	[T1]	1*DVB-S/S2/S2X tuner
	[T2]	1*DVB-C/T/ISDB-T tuner
	[T3]	1*ATSC-T tuner
	[T4]	2*DVB-S/S2/S2X tuner
	[T5]	2*DVB-C/T/ISDB-T tuner
	[T6]	2*ATSC-T tuner
	[T7]	1*DVB-S/S2/S2X tuner + 1*DVB-C/T/ISDB-T tuner
	[T8]	1*DVB-S/S2/S2X tuner + 1* ATSC-T tuner
	[T9]	1*DVB-C/T/ ISDB-T tuner + 1*ATSC-T tuner

<b>Audio Out Channel</b>	[A1]	1*Audio out
	[A2]	2*Audio out