IRD3741/IRD3745

IP to HDMI/ SDI Decoder

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IRD3741/IRD3745 provides a best-of-class standard definition Decoder platform for Cable and Analog TV operators. It supports IP inputs, after MPEG-2/H.264/H.265 video decoding, it outputs HDMI/SDI videos with stereo audio embedded in each port. It supports manually upscale and downscale resolution.

With 3 module slots, each module can be configured individually, enhancing **IRD3741/IRD3745** flexibility and reliable operation. The first-class design and stable performances, which provides the operators perfect choice and satisfaction experiences.

Features

- Modular design, supporting 1-3 modules
- Real-time, high-quality decoding of full motion video for video-over-IP applications
- IP to HDMI/SDI Decoder
- **IRD3741:** 4 or 8 IP (MPTS/SPTS) input one module, over UDP&RTP through data port, 4* HDMI per module with 1 channel stereo audio embedded in each port
- **IRD3745:** 2 IP input and 1 IP output and 2 bi-directional ASI ports with input and output alternatively one module, 2*HD/SD-SDI decoding out with dual stereo audios embedded in each port
- MPEG-2, MPEG-4 AVC/H.264, HEVC/H.265, AVS and AVS+ video decoding
- MPEG1 Layer 2, LC-AAC, HE-AAC, AC3 (2.0) audio decoding (option)
- Manually upscale/downscale resolution
- Control via web management

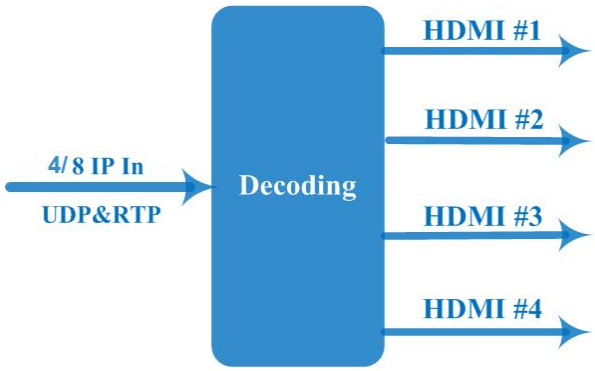
Application

- MPEG-2/4/H.264 HD Decoder
- Convert Multi-Channel IP to HDMI out
- Built up Analog channels works with Digital TV in same network

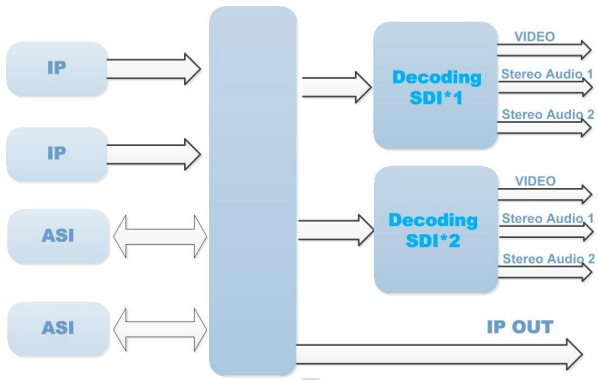
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Principle Chart (per module)

IRD3741



IRD3745



TECHNICAL SPECIFICATIONS

IRD3741

Input---one module, 3 modules in total

IP in	4 or 8*IP one module, 3 modules in total
Connector	100/1000M base-T, RJ45
Data Protocol	UDP/RTP Multicast, Unicast

Video Decoding

Decoding Profile&Level	MPEG-2 MPEG-4 AVC/H.264 HEVC/H.265 AVS, AVS+
Interface	4*HDMI one module, 3 modules in total
Resolution	480i, 480p, 576i, 576p, 1280×720_50p, 1280×720_60p, 1920×1080_50i, 1920×1080_50p 1920×1080_60i, 1920×1080_60p

Audio Decoding

Audio Format	MPEG 1 Layer2, LC-AAC, HE-AAC, AC3 (2.0)

Output---one module, 3 modules in total

4 HDMI decoding out one module,
3 modules in total

Ordering Information

One module	4 or 8*IP in, 4*HDMI out
Two module	8 or 16*IP in, 8*HDMI out
Three module	12 or 24*IP in, 12*HDMI out

Management

Operation	WEB
Language	Chinese/English

IRD3745

Input---one module, 3 modules in total

2 IP	MPTS/SPTS, 100M/1000Mbps Ethernet, RJ45, UDP protocol, Unicast/multicast
2* ASI	BNC 75Ω

2 bi-directional ASI ports with input and output alternatively

Output Ports---one module, 3 modules in total

SD/HD SDI Output

Interface	2×BNC, 75Ω
Resolution	up to 1080i@60fps
SD-SDI output	SMPTE 259M, 270 Mb/s (10bit)
HD-SDI output	SMPTE 292M, 1.485 Gbit/s (20bit)

ASI Output

2* ASI	BNC 75Ω

2 bi-directional ASI ports with input and output alternatively

IP Output

Connector Type	RJ45
MPEG over IP	Multicast/unicast Connectors 1x100/1000M Base-T, Protocols MPEG-TS over UDP

Video Decoding

Video Standard	MPEG-2; MPEG 4 AVC/H.264
Video Resolution	1920x1080i @50/59.94/60 fps, 1280x720p@50/59.94/60 fps, 576p , 576i, 480p , 480i,

Audio Decoding

Audio Standard	MPEG1 Layer2, LC-AAC, HE-AAC, AC3 (2.0/5.1), AC3 Passthrough
Audio Channel	dual stereo audios embedded in each port

Data output

Support Closed Caption/Subtitle

Environment

Rated Voltage	220VAC±10%，50Hz
Rated power	25W
Operating temperature	0 ~ 45°C
Storage temperature	-20 ~ 80°C
Dimensions	328 mm×482 mm×45mm (LxWxH)

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