H-IPTV-HD- GATEWAY

SRT/HTTP/UDP/RTP/RTSP/HLS → SRT/HTTP/ UDP/ HLS/RTMP

H-IPTV-HD- GATEWAY

Outline

Thor H-IPTV-HD-GATEWAY – This IPTV Gateway Server is our latest device that combines both an IP Gateway and an IPTV server into a single unit. It is designed for protocol conversion and streaming media distribution applications. The unit can convert broadcast network IP streams over SRT, HTTP, UDP, RTP, RTSP, HLS, and TS file formats into SRT, HTTP, UDP, HLS, and RTMP protocols.
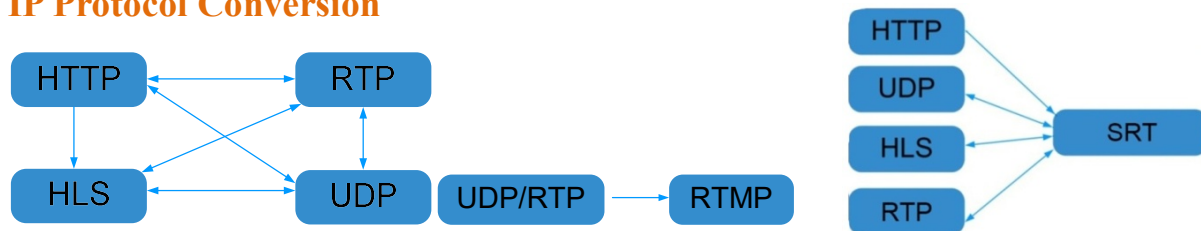
Additionally, it integrates a full IPTV system with support for VOD (Video on Demand), allowing users to upload content directly using its large internal storage capacity.

In summary, this all-in-one, fully featured device is ideal for small CATV head-end systems especially in hospitality environments such as hotel TV systems.
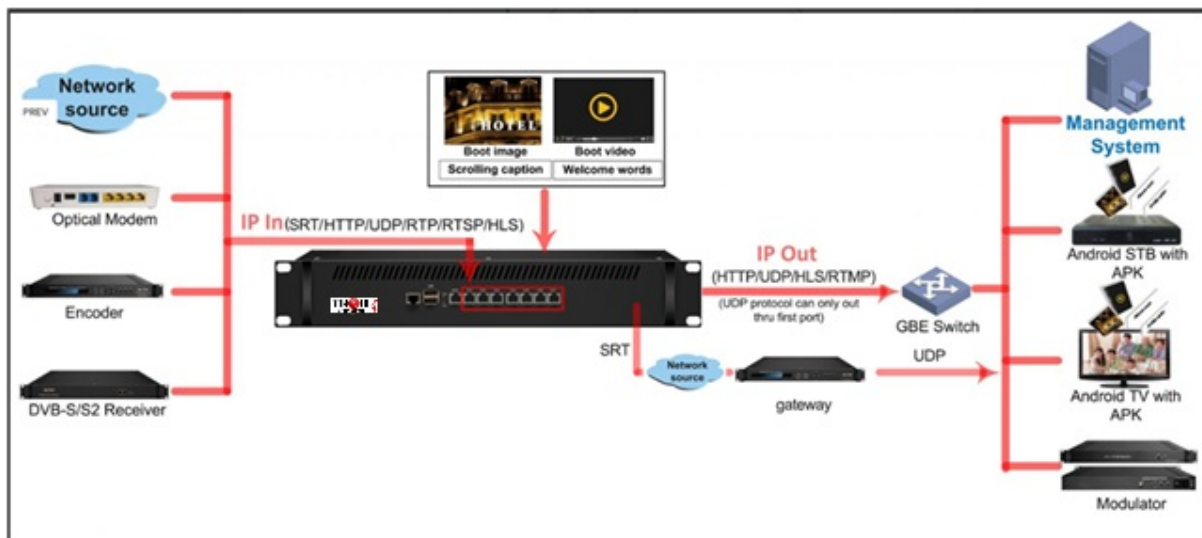
Key Features

- **IP Gateway + IPTV server in one device**

- **Manage gateway and IPTV server separately**

- **SRT,HTTP, UDP, RTP, RTSP and HLS in→SRT,HTTP, UDP, HLS and RTMP out**

- **IPTV Functions: Live channel, VOD, Hotel intro, Hotel service, Scenery intro, APPS, and so on**

- **Adding scrolling caption, welcome words, pictures, advertisement, video, music in main interface**

- **TS files uploading through Web management**

- **IP anti-jitter function**

- **Downloading Thor　IPTV APK directly from this device**

- **Support program playing with APK downloaded android STB and TV**

- **Control via web-based NMS management through DATA port**

IP Protocol Conversion

General Principle Chart

Specifications

IP Input	DATA CH 1-7(1000M) ports: IP input over SRT, HTTP,UDP(SPTS),RTP(SPTS),RTSP (over UDP, payload: mpeg TS) and HLS	
	TS files uploading through Web management	
IP output	First Data port (1000M): IP out over SRT, HTTP (Unicast), UDP(SPTS, Multicast) HLS and RTMP (Program source should be H.264 and AAC encoding)	
System	Channel switching time with Thor' STB: HTTP (1-3s), HLS (0.4-0.7s)	
	Play programs with APK downloaded android STB and TV	
	About 80 HD/SD programs (Bitrate at 2Mbps) when HTTP/RTP/RTSP/HLS is converted into UDP (Multicast),the actual application shall prevail, and suggest maximum 80% CPU utilization	
	IPTV system function	support Live channel, VOD, Hotel introduction, Dining, Hotel service, APPS, scenery introduction and so on (Please install Thor IPTV APK)
	IPTV system main interface	support adding scrolling caption, welcome words, pictures, advertisement, video, music (Please install Thor IPTV APK)
	web-based NMS management thru DATA port	
General	Demission	482.6mm×328mm×88mm (WxLxH) **19.0 in × 12.9 in × 3.5 in**
	Temperature	0~45℃(operation), -20~80℃(storage)
	Power Supply	AC100V±10%, 50/60Hz or AC 220V±10%, 50/60Hz

Test data for reference:

Protocol Cconversion	Programs	Bitrate	Terminals		CPU Utilization
			H-IPTV- GATEWAY Users	H-IPTV-HD- GATEWAY Users	
HTTP/RTP/RTSP/HLS to UDP	80	2M	---	---	55%
HTTP to HTTP	30	2M	300	600	80%
	50	2M	160	320	80%
HTTP to HLS	50	2M	400	800	46%
UDP to HLS	50	2M	400	800	50%
	80	2M	300	600	72%
UDP to HTTP	50	2M	240	480	50%
UDP to SRT	50	2M	---	---	50%
UDP to SRT	50	2M	---	---	75%

Order Guide:

Model No.	Feature		Memory	CPU	Solid-State Disk(SSD)	Mechanical Hard Disk
H-IPTV-GATEWAY	Gateway + IPTV server		8G	i5/i7 (3rd Generation)	120G/240G random	/
H-IPTV- HD-GATEWAY	Gateway + IPTV server		16G	i7 (6th Generation)	120G/240G random	4T