CatCast

HP3608S/I — IPTV Gateway Server

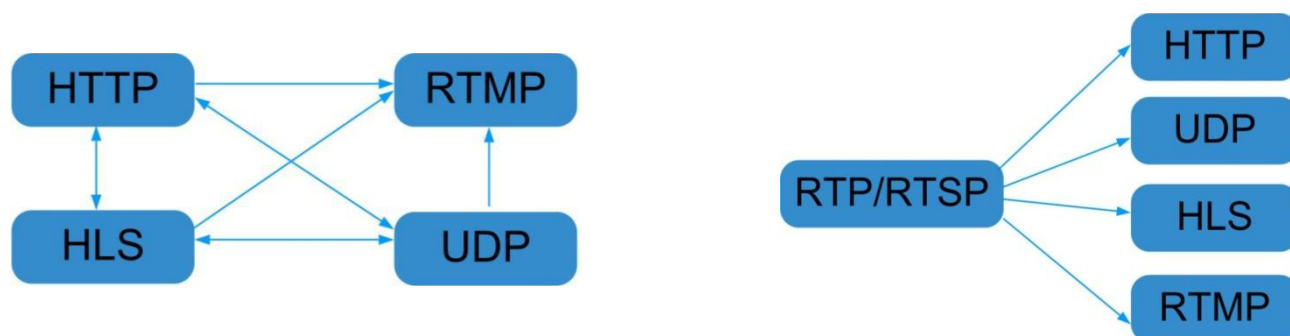HTTP/UDP/RTP/RTSP/HLS ➞ HTTP/ UDP/ HLS/RTMP

Outline

Catcast HP3608S (HP3608S-M/ HP3608I) IPTV Gateway Server is the newest device which combined with IP Gateway and IPTV server in one unit. It is used for the protocol conversion scenarios and streaming media distribution scenarios. It can convert the broadcast network IP stream over HTTP, UDP, RTP, RTSP and HLS and TS file into HTTP, UDP, HLS and RTMP protocol. In addition, it integrates IPTV system and users can upload VOD source on it with huge memory. In conclusion, this full function device makes it ideal for small IPTV head end system.
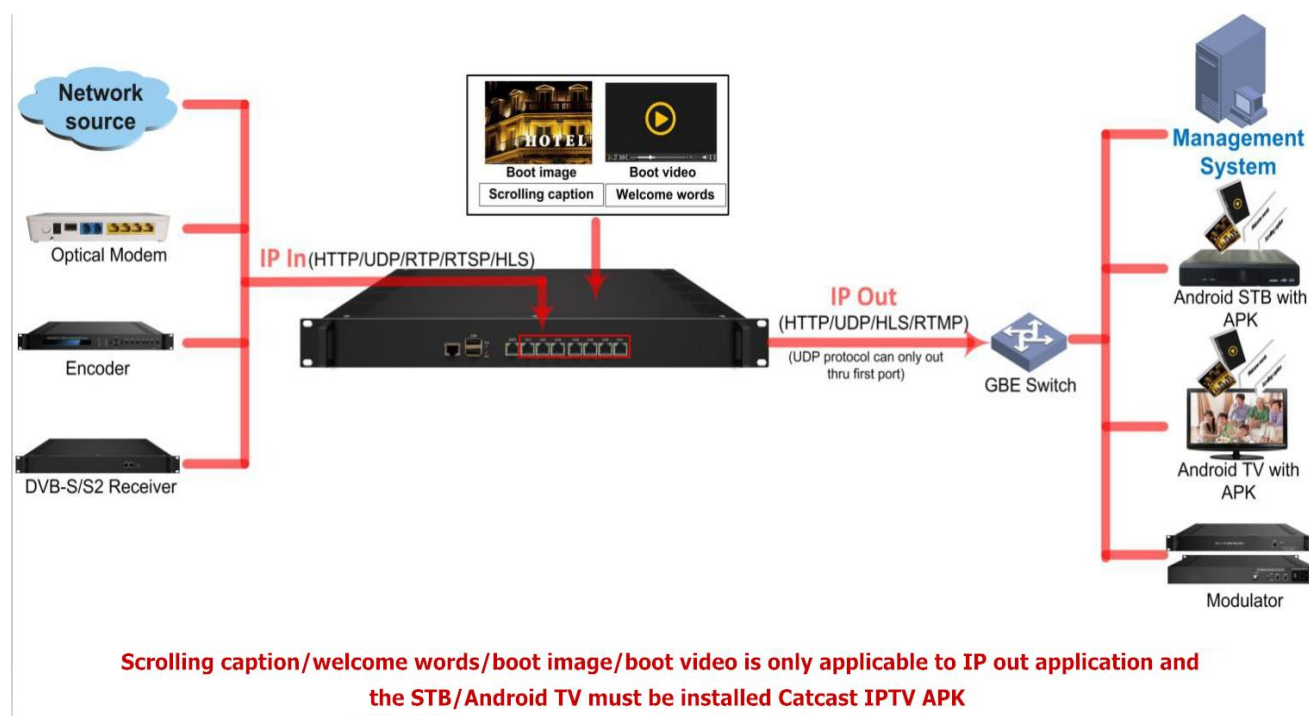
Key Features

- IP Gateway + IPTV server in one device

- Manage gateway and IPTV server separately

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

- IPTV Functions: Live channel, VOD, Hotel intro, Dining, 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 Catcast IPTV APK directly from this device

- Support program playing with APK downloaded android STB and TV, maximum 150

terminals

- Control via web-based NMS management through DATA port

IP Protocol Conversion

General Principle Chart

Scrolling caption/welcome words/boot image/boot video is only applicable to IP out application and the STB/Android TV must be installed Catcast IPTV APK

Specifications

IP Input	DATA CH 1-7(1000M) ports: IP input over 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 HTTP (Unicast), UDP(SPTS, Multicast) HLS and RTMP (Program source should be H.264 and AAC encoding)			
	DATA CH 1-7(1000M) ports: IP out over HTTP/HLS/RTMP (Unicast)			
System			HP3608S	HP3608S-M	HP3608I
	Memory	4G	4G	8G
	CPU	1037	I7	I7
	Solid-State Disk(SSD)	120G	120G	120G
	Mechanical Hard Disk	4T	4T	4T
	Channel switching time with CATCAST' STB: HTTP (1-3s), HLS (0.4-0.7s)			
	Play programs with APK downloaded android STB and TV, maximum 150 terminals(See details in below Test data for reference)			
	About 80 HD/SD programs (Bitrate: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 CATCAST IPTV APK)		
	IPTV system main	support adding scrolling caption, welcome words, pictures,		

	interface	advertisement, video , music (Please install CATCAST IPTV APK)
	web-based NMS management thru DATA port	
General	Demission	482.6mm×328mm×88mm (WxLxH)
	Temperature	0~45℃(operation), -20~80℃(storage)
	Power Supply	AC 100V±10%, 50/60Hz or AC 220V±10%, 50/60Hz

Test data for reference

Protocol conversion	Programs	Bitrate	Terminals			CPU utilization
			HP3608S	HP3608S-M	HP3608I	
HTTP/RTP/RTSP/HLS to UDP	80	2M	---	---	---	55%
HTTP to HTTP	30	2M	150	300	600	80%
	50	2M	80	160	320	80%
HTTP to HLS	50	2M	200	400	800	46%
UDP to HLS	50	2M	200	400	800	50%
	80	2M	150	300	600	72%
UDP to HTTP	50	2M	120	240	480	50%

Order Guide

	Feature	Memory	CPU	Solid-State Disk(SSD)	Mechanical Hard Disk
HP3608F	Gateway	4G	1037	16G(60G optional)	×
HP3608F-M	Gateway	4G	i7	16G(60G optional)	×
HP3608D	Gateway +Modulator	4G	1037	16G	×
HP3608S	Gateway + IPTV Server	4G	1037	120G	4T
HP3608S-M	Gateway+IPTV server	4G	i7	120G	4T
HP3608I	Gateway + IPTV Server	8G	i7	120G	4T