

iStreamer

IPTV Gateway Server

HTTP,UDP,RTP,RTSP,HLS

DIBSYS



iStreamer is a powerful, yet low power consumption IPTV Gateway Server which combined with IP Gateway and IPTV server in one unit.

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. The platform can integrate IPTV system and users can upload VOD source on it with huge memory.

used for the protocol conversion scenarios and streaming media distribution scenarios, this full function device makes it ideal for small CATV head end system, especial in hotel TV system.

Key Features

- IPTV 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
- Adding scrolling caption, welcome words, pictures, advertisement, video, music in main interface
- IPTV Functions: Live channel, VOD, Hotel intro, Dining, Hotel service, Scenery intro, APPS...
- IP anti- jitter function
- support IP address detection function, it allows the use of company IP detection tools to detect gateway IP addresses
- UDP/RTP input support MPTS (bitrate $\leq 30M$)/SPTS
- TS files uploading through Web management
- Downloading DIBSYS IPTV APK directly from this device
- Support program playing with APK downloaded android STB and TV

Application

- IPTV Gateway Controller& Server
- Contribution and Distribution
- Protocol conversion scenarios

TECHNICAL SPECIFICATIONS

Input

CH1 ~ CH7(1000M) IP input over HTTP, UDP(SPTS/MPTS), RTP(SPTS/MPTS), RTSP (over UDP, payload: mpeg TS) and HLS TS files uploading through Web management

IP Output

Data port (1000M) 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

	iStreamer-S	iStreamer-M	iStreamer-I	iStreamer-SI
Memory	4G	4G	8G	8G
CPU	1037	I5	I7	I3
Solid-State Disk(SSD)	120G	120G	120G	120G (SATA)
Mechanical Hard Disk	4T	4T	4T	/
Ethernet Interface	8*Gigabit Ethernet port	8*Gigabit Ethernet port	8*Gigabit Ethernet port and 1*SFP+	8*Gigabit Ethernet port and 1*SFP+

Channel switching time HTTP (1-3s), HLS (0.4-0.7s)
 IPTV System Function Live channel, VOD, Hotel introduction, Dining, Hotel service, APPS, scenery introduction, etc (the STB/Android TV installed DIBSYS IPTV APK)
 IPTV system main interface scrolling caption, welcome words, pictures, advertisement, video, music, etc (the STB/Android TV installed DIBSYS IPTV APK)
 Management web-based NMS
 maximum 80 HD/SD programs Bitrate 2Mbps each programs
 HTTP/RTP/RTSP/HLS is converted into UDP (Multicast), the actual application shall prevail, and suggest maximum 80% CPU utilization

Environment

Power Supply AC 100V±10%, 50/60Hz or AC 220V±10%, 50/60Hz
 Dimension 482.6mm×328mm×88mm (W*L*H)
 Operating temperature 0 ~45℃
 Storage temperature -20 ~ 80℃
 Humidity 10 ~ 90% non-condensed

Test data for reference

Model	iStreamer-S	iStreamer-M	iStreamer-SI	iStreamer-I
size	2U	2U	2U	2U
Number of network ports	8	8	8	8
SFP+	×	×	√	√
software	Live+IPTV	Live+IPTV	Live+IPTV	Live+IPTV
Load capacity	Input channel	SD (4M) 40 CHS	HD (8M) 40 CHS	HD (8M) 50 CHS
	Load terminal	100	150	400
VOD capacity	Within 50	Within 50	Within 50	Within 50

Please confirm the following information with sales before ordering:

1. IP protocol of signal source: UDP, RTMP, HLS or others.
2. Number of programs, HD or SD channels and bitrate.
3. Number of end users.
4. Besides live TV and VOD, need any other function?
5. Is PMS compatible required?
6. Is the terminal running on set top box, Android smart TV, or others?

Protocol conversion

