

iStreamer

IPTV Gateway Server

HTTP, UDP, RTP, RTSP, HLS, SRT



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, SRT, 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
- First Data port: IP out over HTTP, UDP (SPTS), HLS and RTMP, SRT
- Data CH1~CH9 ports: IP in over HTTP, UDP (SPTS), RTP(SPTS), RTSP, RTMP and HLS, SRT; IP out over HTTP, SRT, HLS and RTMP (Unicast)
- SRT input mode support Caller and Rendezvous; SRT output mode support Listener, Caller and Rendezvous
- 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 scenario

TECHNICAL SPECIFICATIONS

Input

CH1 ~ CH9(1000M) IP input over HTTP, UDP(SPTS/MPTS), RTP(SPTS/MPTS), RTSP, SRT, RTMP (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 1-9(1000M) ports IP out over HTTP/HLS/RTMP (Unicast), SRT

SYSTEM

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)
 Play programs with APK downloaded android STB and TV

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

Ordering Information

Model		iStreamer-L	iStreamer-S	iStreamer-M	iStreamer-SI	iStreamer-I
Size		1U	2U	2U	2U	2U
Hardware	CPU	3685U	1037 3965	intel I5	intel I3 6100	intel I7
	Core	2	2	4	4	8
	RAM	8G	8G	8G	8G	8G
	SSD	120G SSD	120G SSD	120G SSD	120G SSD	120G SSD
	HDD	/	4T SATA	4T SATA	/	4T SATA
DATA Port Number		6 ports	8 ports	8 ports	8 ports	8 ports
SFP+		/	/	/	SFP+	SFP+
Software		Live TV+IPTV	Live TV+IPTV	Live TV+IPTV	Live TV+IPTV	Live TV+IPTV
Load capacity	Input Channels	SD(4M) *40	SD(4M) *40	HD(8M) *40	HD(8M) *50	HD(8M) *60
	User Number	50	100	150	400	600
VOD Load		≤20	≤50	≤50	≤50	≤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

