DCM750

DIBSYS

IPTV Gateway IP protocol conversion scenarios

HTTP, UDP, RTP, RTSP , HLS , SRT

DCM750 is a powerful, yet low power consumption, rack-mount IPTV Gateway Controller& Control Interface for 24/7 operation. Its modular design enables integrators and operators to select from various protocol to customise operation and on-going service.

It can convert the broadcast network IP stream over HTTP, SRT, UDP, RTP, RTSP and HLS and TS file into HTTP, UDP, SRT, HLS and RTMP protocol. The platform can achieve the integration by receiving a variety of commercial streaming media services, and can provide streaming media services directly.

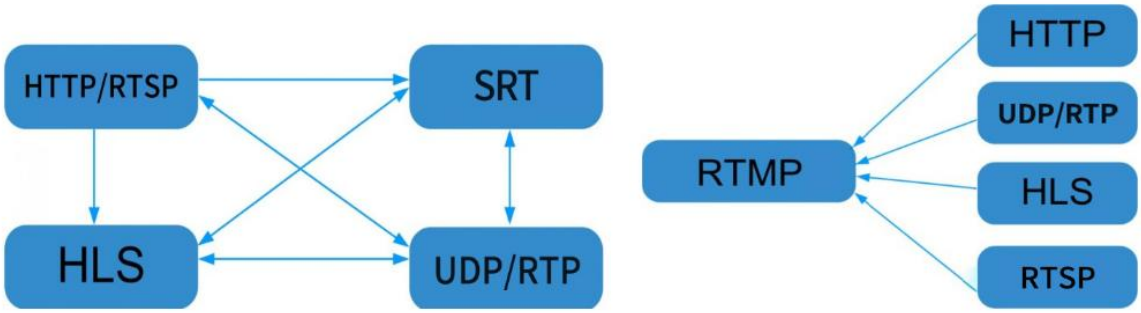
Designed for the centralised control of Android STB's the control protocol conversion function acts, used for the protocol conversion scenarios and streaming media distribution scenarios, to the commonly deployed STB's in the hotel, hospitality, corporate, education and entertainment sectors.

Key Features

- low power consumption, rack-mount design
- 8/10 Data ports(DCM750):
  First Data port: IP out over HTTP, UDP, SRT,HLS and RTMP
  Data CH1~CH7/CH9 ports: IP in over HTTP, UDP, RTP, SRT, RTSP and HLS
  IP out over HTTP, SRT, HLS and RTMP (Unicast)
- 8 Data ports(DCM750Plus):
  First Data port: IP out over HTTP, UDP,SRT, HLS and RTMP
  Data CH1~CH7 ports: IP in over HTTP, UDP, SRT,RTP, RTSP and HLS
  IP out over HTTP, SRT, HLS and RTMP (Unicast)
- UDP/RTP input support MPTS (bitrate ≤30M)/SPTS
- TS files uploading through Web management
- IP anti- jitter function
- adding scrolling caption, welcome words, boot image and boot video
- Support downloading Dibsys IPTV APK directly from this device
- Up to **80 HD/SD programs (DCM750)**, or **150 HD/SD programs(DCM750Plus)** (Bitrate: 2Mbps) When HTTP/RTP/RTSP/HLS is converted into UDP (Multicast), **suggest maximum 80% CPU utilization**
- Support program playing with APK downloaded android STB and TV
- Control via web-based NMS management through DATA port

 ¦ www.dibvision.com ¦ sales@dibvision.com ¦ +86 571 8971 4580 ¦ Skype:dibdvb

Protocol conversion



TECHNICAL SPECIFICATIONS

Input

CH1 ~ CH9(1000M)	over HTTP, UDP(MPTS/SPTS), RTP(MPTS/SPTS), RTSP, SRT (over UDP, payload: mpeg TS) and HLS **Note:** DCM750 only support SPTS in

TS files uploading through Web management

IP Output

Data port (1000M)	over SRT, HTTP (Unicast), UDP(SPTS, Multicast) HLS and RTMP (Program source should be H.264 and AAC encoding)

SYSTEM

Memory	4G
Solid-State Disk(SSD)	16G, 60G optional
Channel switching time	HTTP (1-3s), HLS (0.4-0.7s)
Function	scrolling caption welcome words boot image boot video (only in IP out application and the STB/Android TV installed DIBSYS IPTV APK)
maximum 150 terminals	Play programs with APK downloaded android STB and TV
Management	web-based NMS
maximum 80 HD/SD programs	Bitrate 2Mbps each programs

SRT/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	482mm×324mm×44mm
Operating temperature	-10 ~ 50℃
Storage temperature	-10 ~ 75℃
Humidity	10 ~ 90% non-condensed
Weight	6KG

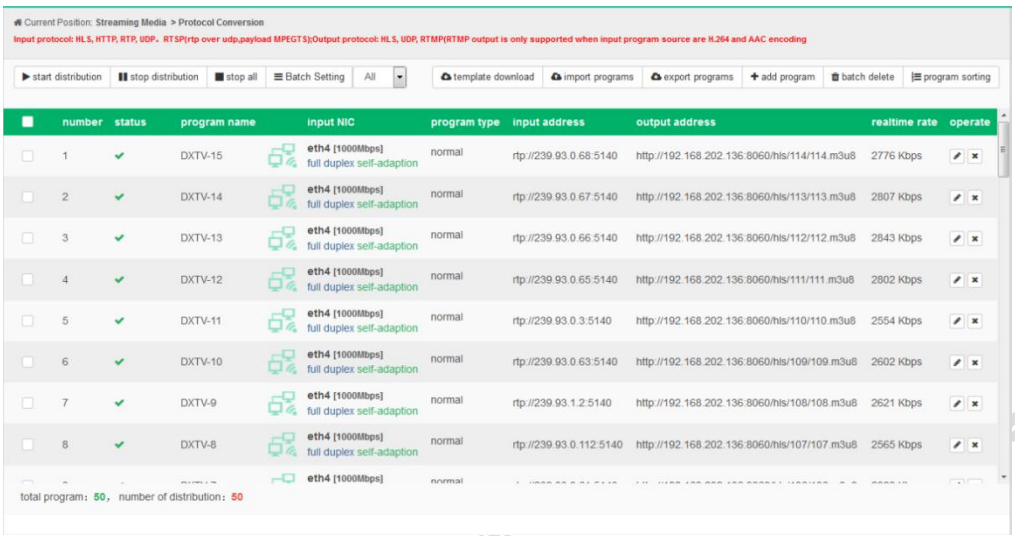
Ordering Information

Protocol conversion	Programs	Bitrate	Terminals		CPU utilization
			DCM750	DCM750Plus	/
HTTP/RTP/RTSP/HLS to UDP	80	2M	/	/	55%
HTTP to HLS	50	2M	200	400	46%
HTTP to HTTP	30	2M	150	300	80%
	50	2M	80	160	80%
UDP to HTTP	50	2M	120	240	50%
UDP to HLS	50	2M	200	400	50%
	80	2M	150	300	72%

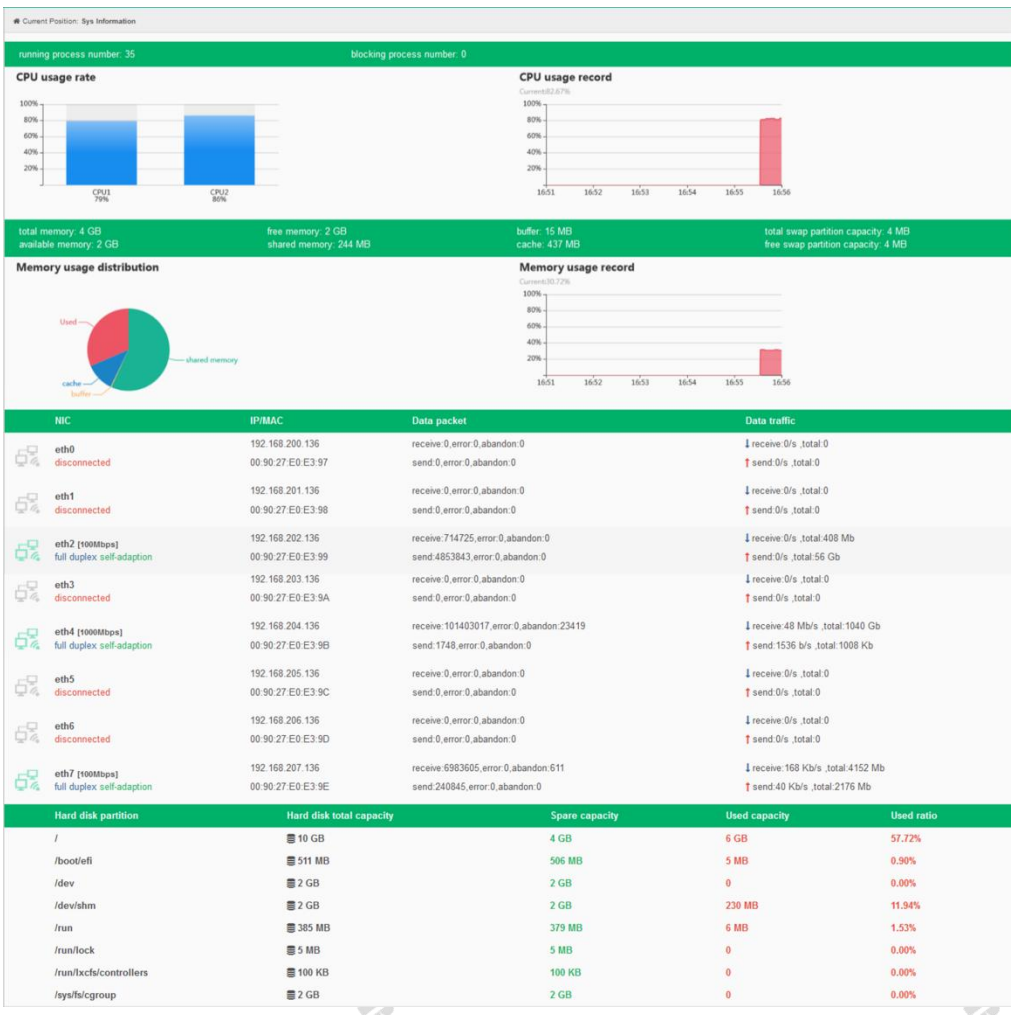
Model	Feature	Memory	CPU	Solid-State Disk(SSD)	Mechanical Hard Disk
DCM750	Gateway	4G	1037	16G (60G optional)	x
DCM750Plus	Gateway	4G	i5/i7	16G (60G optional)	x

WEB GUI

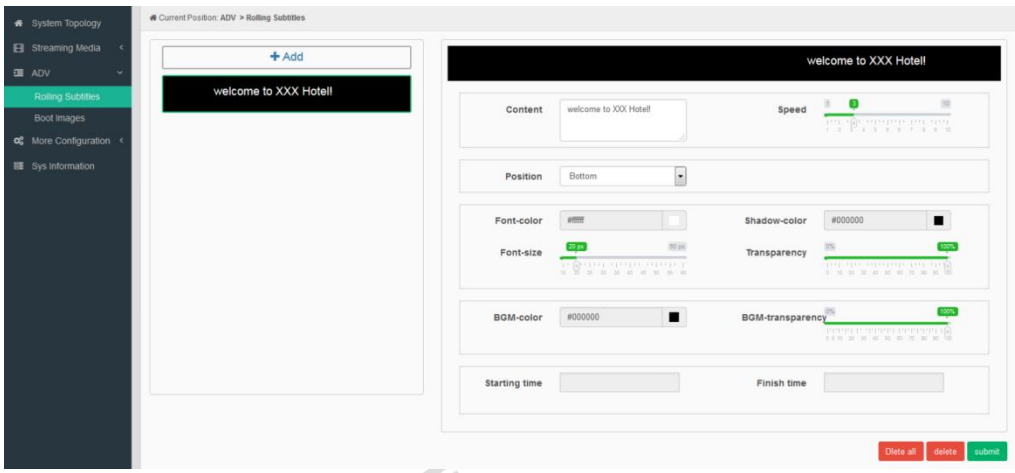
Streaming Media→ Protocol Conversion



System Information



ADV→ Rolling Subtitles



Application

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