



NDS3508S/I

IPTV Gateway Server

HTTP/UDP/RTP/RTSP/HLS



HTTP/UDP/HLS/RTMP



Outline

Dexin NDS3508S (NDS3508S-M/NDS3508I) 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 CATV head end system, especial in hotel TV system...



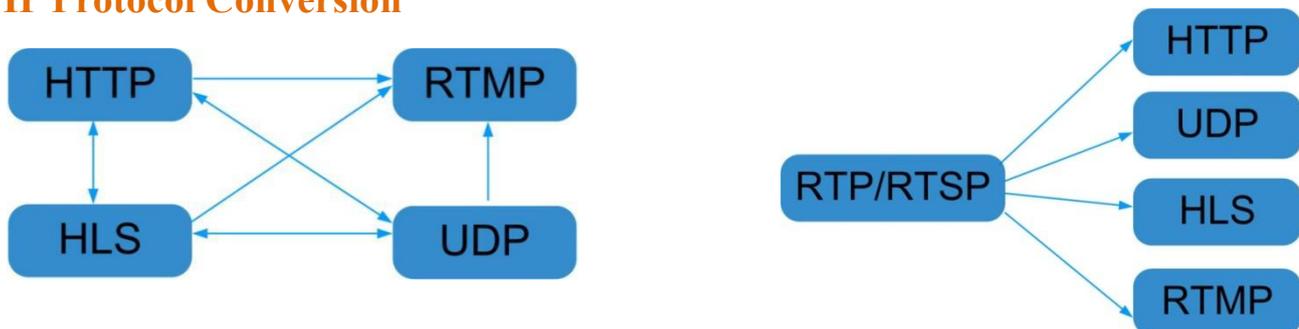
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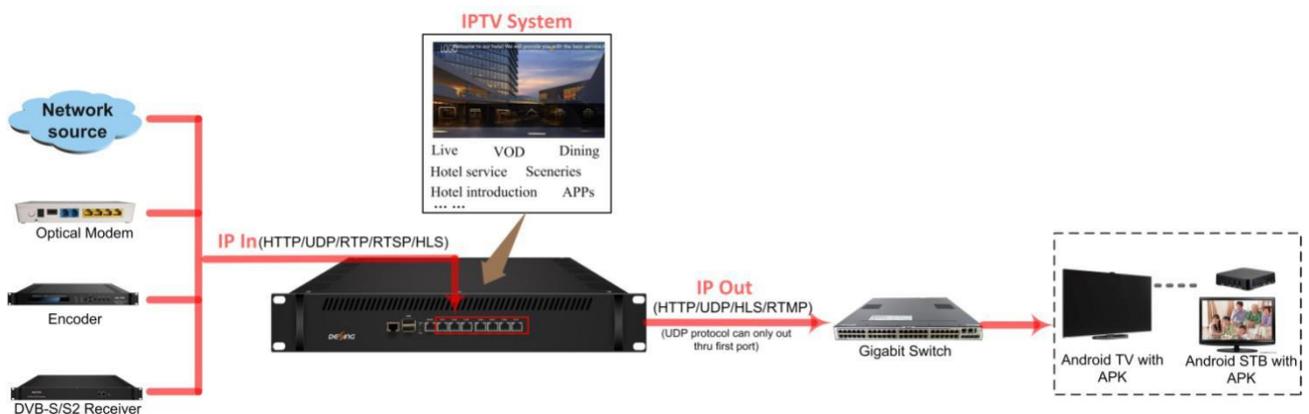
Key Features

- 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 Dexin 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



Specifications



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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		NDS3508S	NDS3508S-M	NDS3508I
	Memory	4G	4G	8G
	CPU	1037	i5	i7
	Solid-State Disk(SSD)	120G	120G	120G
	Mechanical Hard Disk	4T	4T	4T
	Channel switching time with DEXIN' 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 Dexin IPTV APK)		
	IPTV system main interface	support adding scrolling caption, welcome words, pictures, advertisement, video , music (Please install Dexin 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
			NDS3508S	NDS3508S-M	NDS3508I	
HTTP/RTP/R TSP/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
NDS3508F	Gateway	4G	1037	16G(60G optional)	×
NDS3508F-M	Gateway	4G	i5	16G(60G optional)	×
NDS3508C	Gateway +Modulator	4G	1037	16G	×
NDS3508S	Gateway + IPTV Server	4G	1037	120G	4T
NDS3508S-M	Gateway+IPTV server	4G	i5	120G	4T
NDS3508I	Gateway + IPTV Server	8G	i7	120G	4T