



NDS3508S/I

IPTV Gateway Server Series

SRT/HTTP/UDP/RTP/RTSP/HLS



SRT/HTTP/UDP/HLS/RTMP



NDS3508I



NDS3508S-M

### Outline

Dexin NDS3508S/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 SRT, HTTP, UDP, RTP, RTSP and HLS and TS file into SRT, HTTP, UDP, HLS and RTMP protocol. In addition, it integrates

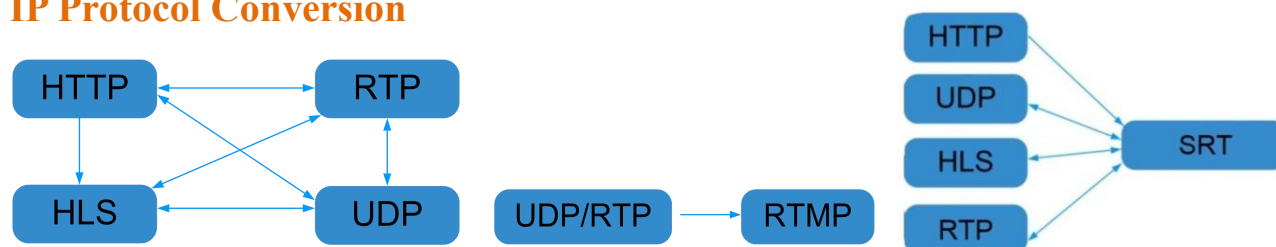


IPTV system and users can upload VOD source on it with huge memory. In conclusion, this full function device makes it ideal for small CATV head end system, especial in hotel TV system...

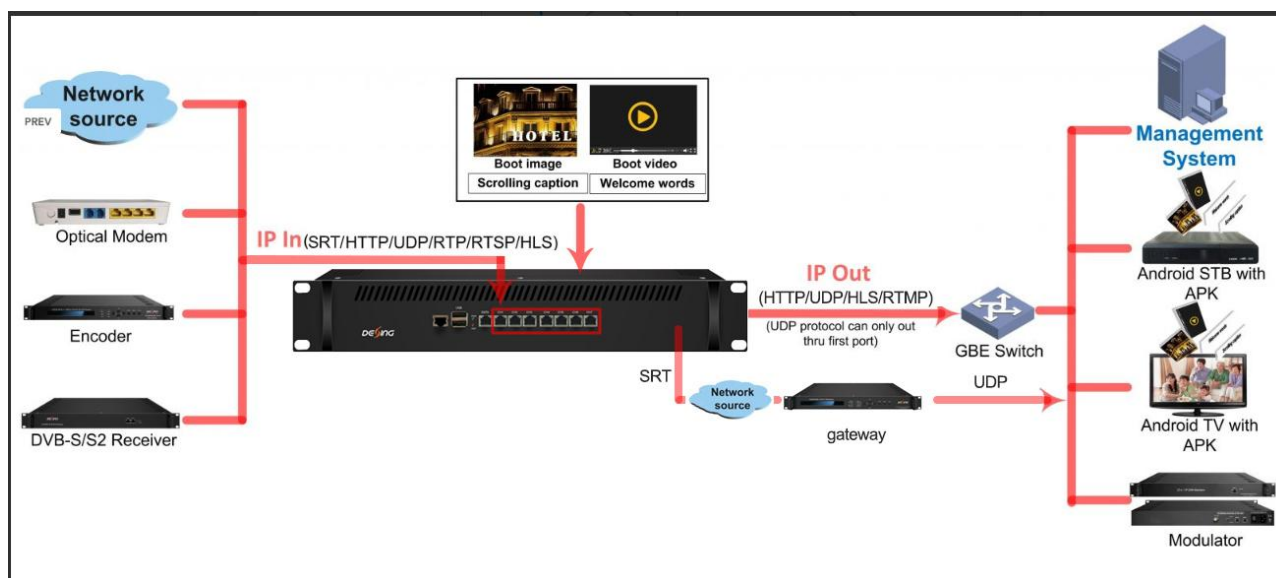
## Key Features

- IP Gateway + IPTV server in one device
- Manage gateway and IPTV server separately
- SRT, HTTP, UDP, RTP, RTSP and HLS in→SRT, HTTP, UDP, HLS and RTMP out
- IPTV Functions: Live channel, VOD, Hotel intro, 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
- Control via web-based NMS management through DATA port

## IP Protocol Conversion



## General Principle Chart



## Specifications

<b>IP Input</b>	DATA CH 1-7 (1000M) ports: IP input over SRT, HTTP, UDP (SPTS), RTP (SPTS), RTSP (over UDP, payload: mpeg TS) and HLS	
	TS files uploading through Web management	
<b>IP output</b>	First Data port (1000M): IP out over SRT, 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) SFP+ output 10000M (for NDS3508S-I and NDS3508I)	
<b>System</b>	Channel switching time with DEXIN' STB: HTTP (1-3s), HLS (0.4-0.7s)	
	Play programs with APK downloaded android STB and TV	
	About 80 HD/SD programs (Bitrate at 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		
<b>General</b>	Demission	482.6mm×328mm×88mm (W×L×H)
	Temperature	0~45°C (operation), -20~80°C (storage)
	Power Supply	AC100V±10%, 50/60Hz or AC 220V±10%, 50/60Hz

## Test data for reference:

Protocol Conversion	Programs	Bitrate	Terminals		CPU Utilization
			NDS3508S-M	NDS3508I	
HTTP/RTP/R TSP/HLS to UDP	80	2M	---	---	55%
HTTP to HTTP	30	2M	300	600	80%
	50	2M	160	320	80%
HTTP to HLS	50	2M	400	800	46%
UDP to HLS	50	2M	400	800	50%
	80	2M	300	600	72%
UDP to HTTP	50	2M	240	480	50%
UDP to SRT	50	2M	---	---	50%
UDP to SRT	50	2M	---	---	75%

## Order Guide:

Model No.	Feature	SFP+	Memory	CPU	Solid-State Disk (SSD)	Mechanical Hard Disk
<b>NDS3508F-M</b>	Gateway+IPTV server	/	8G	i5/i7 (3rd Generation)	120G/240G random	/
<b>NDS3508S-M</b>	Gateway+IPTV server	/	8G	i5/i7 (3rd Generation)	120G/240G random	4T
<b>NDS3508S-I</b>	Gateway+IPTV server	1	8G	i3 (6th Generation)	120G/240G random	/
<b>NDS3508I</b>	Gateway+IPTV server	1	16G	i7 (6th Generation)	120G/240G random	4T