



**NDS3508B**

**Tuner to IP Gateway**



## Outline

NDS3508B Tuner to IP Gateway is a head-end interface-conversion device which supports MPTS(Bypass) output and SPTS output switchable in Web GUI. It supports 24 MPTS output(24 FTA tuner inputs)+3 MPTS output(2 ASI inputs and 1 USB input) or 1024 SPTS output over UDP and RTP/RTSP protocol. It is integrated with tuner demodulation (or ASI input) and gateway function, which can demodulate the signal from 24 FTA tuners into IP package, or directly convert the TS from ASI inputs or USB input into IP package, then output the IP package through different IP address and ports. BISS function is also embedded to descramble the programs from tuner inputs.

## Key Features

- **Support 24 or 16 FTA DVB- S/S2/S2X or DVB-C/T/T2/ISDB-T Multi-Mode Switchable tuner inputs, 2 ASI inputs, 1USB input(TS file Playing, FTA 32, USB 2.0)**
- **Support BISS descrambling for tuner inputs**
- **Support DisEqc function**

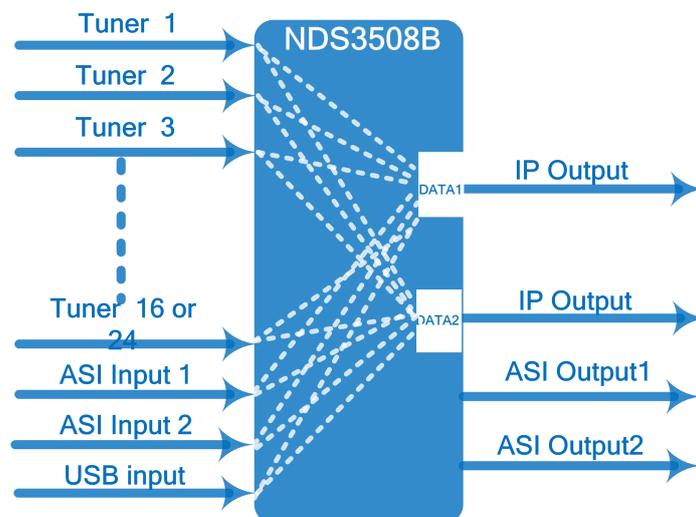


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- 24 MPTS output+3 MPTS output(2 ASI inputs and 1 USB port) or 1024 SPTS output (MPTS and SPTS output switchable in Web GUI)
- 2 DATA output ports (IP address and port number of DATA1 and DATA2 are different), up to 900Mbps---SPTS
- 2 independent DATA output ports, DATA1 ( 512 SPTS output ) + DATA2 ( 512 SPTS output )
- MPTS is pass-through mode, the first 12 tuner-input signals will be outputted from DATA 1, the rest 12 tuner-input signals will be outputted from DATA 2; The 2 ASI-input signals and 1 USB-input signal can be chosen to output via DATA 1 or DATA 2
- ASI out is useless in SPTS out mode, and ASI out can be the bypass output of one of the 27 input signals(24 tuner inputs, 2 ASI inputs and 1 USB port) in MPTS out mode, ASI out 1 and ASI out 2 are mirror ports to output the same one TS
- Support PID filtering, re-mapping (Only for SPTS output)
- Support “Null PKT Filter” function (Only for MPTS output)
- Support Web operation, reboot in Web GUI after firmware upgrading

## Working Principle



## Specifications

Input		24 tuners inputs +2 ASI inputs +1 USB inputs	
Satellite	DVB-S	Frequency In	950~2150MHz
		Symbol rate	0.5~45Msps
		Signal Strength	- 65- -25dBm
		FEC	1/2, 2/3, 3/4, 5/6, 7/8
		Constellation	QPSK
		Max input bitrate	≤125 Mbps
	DVB-S2	Frequency In	950~2150MHz
		Symbol rate	QPSK/8PSK /16APSK :0.5~45 Msps 32APSK: 0.5~34Msps;
		FEC	QPSK: 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10 8PSK: 3/5, 2/3, 3/4, 5/6, 8/9, 9/10 16APSK: 2/3, 3/4, 4/5, 5/6, 8/9, 9/10 32APSK: 3/4, 4/5, 5/6, 8/9, 9/10
		Constellation	QPSK, 8PSK, 16APSK, 32APSK
		Max input bitrate	≤125 Mbps
		DVB-S2X	Frequency In
	Symbol rate		QPSK/8PSK /16APSK :0.5~45 Msps 8APSK: 0.5~40Msps 32APSK: 0.5~34Msps
	FEC		QPSK: 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10, 13/45, 9/20, 11/20 8PSK: 3/5, 2/3, 3/4, 5/6, 8/9, 9/10 8APSK: 5/9-L, 26/45-L 16APSK: 2/3, 3/4, 4/5, 5/6, 8/9, 9/10, 1/2-L, 8/15-L, 5/9-L, 26/45, 3/5, 3/5-L, 28/45, 23/36, 2/3-L, 25/36, 13/18, 7/9, 77/90 32APSK: 3/4, 4/5, 5/6, 8/9, 9/10, 2/3-L, 32/45, 11/15, 7/9
	Constellation		QPSK, 8PSK, 8APSK, 16APSK, 32APSK
Max input bitrate	≤125 Mbps		
Multi-Mode Switchable Tuner Inputs	DVB-C		Standard
		Frequency In	50~960MHz
		Constellation	16/32/64/128/256 QAM
	DVB-T/T2	Frequency In	50~960MHz
		Bandwidth	6/7/8 M bandwidth
	ISDB-T	Frequency In	50~960MHz

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HIGH-DEFINITION MULTIMEDIA INTERFACE**(HDCP)****DOLBY**<sup>®</sup>**CE** **FC****Dexin Digital, the authorized licensee, takes you into a new digital life.**

<b>BISS Descrambling</b>	Mode 1, Mode E	
<b>Output</b>	1024 SPTS IP output over UDP and RTP/RTSP protocol through DATA1 and DATA2 port (IP address and port number of DATA1 and DATA2 are different), Unicast and Multicast	
	27 MPTS IP output (for Tuner/ASI/USB bypass) over UDP and RTP/RTSP protocol through DATA1 and DATA2 port, Unicast and Multicast	
	2 ASI outputs(MPTS out mode only, mirror ports to output the same one TS)	
<b>System</b>	Web based management	
	Ethernet software upgrade	
<b>Miscellaneous</b>	Dimension	482mm×270mm×44mm (W×L×H)
	Environment	0~45°C(work); -20~80°C (Storage)
	Power requirements	100~240VAC, 50/60Hz



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