



## Outline

NDS3107G Tuner Input Multiplexer is the latest demodulation and multiplexing device for digital TV broadcasting head-end system with TS output through IP port. It can multiplex up to 16 channels Tuner and 2 ASI input to IP (MPTS). This multiplexer has the functions of supporting auto-generation of PSI/SI information, PID re-mapping, and service filtering.

BISS function embedded will carefully descramble tuner input programs. In conclusion, its high integration and cost effective design make this device widely used in the CATV Broadcasting system.

## Key Features

- Support 16 FTA DVB-S/S2 (DVB-C/(T)/ISDB-T/ATSC optional )input, 2 ASI input
- Support BISS descrambling, and each channel bit rate cannot exceed 80Mbps
- Support DisEqc function
- 4 IP output (MPTS) over UDP, RTP/RTSP protocol
- 2 GE mirrored output, up to 850Mbps
- Support PID filtering, re-mapping
- Support PSI/SI rebuilding and editing

- Support “Null PKT Filter” function
- Support Web operation

## Specifications

<b>Input</b>	16 tuners input +2 ASI input		
<b>Tuner Section</b>	DVB-C	Standard	J.83A(DVB-C), J.83B, J.83C
		Frequency In	30 MHz~1000 MHz
		Constellation	16/32/64/128/256 QAM
	DVB-(T)	Frequency In	30MHz ~999.999 MHz
		Bandwidth	6/7/8 M bandwidth
	DVB-S/S2	Input Frequency	950-2150MHz
		Symbol rate	DVB-S:QPSK 2~45Mbauds; DVB-S2:QPSK 1~45Mbauds, 8PSK 2~30Mbauds
		Code rate	1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10
		Constellation	QPSK, 8PSK
	ISDB-T	Input Frequency	30 MHz~1000MHz
ATSC	Bandwidth	6M	
	Input Frequency	50 MHz~960MHz	
<b>Re-multiplex</b>	PID re-mapping		
	PCR accurate adjusting		
	Automatic generating PSI/SI table		
<b>PID</b>	Output range	0x0000—0x1FFF	
	PID transparent	Any PID transparent and mapping achievable	
	Amount of output PID per input	128	
<b>BISS descrambling</b>	Mode 1, Mode E (Up to 850Mbps) (descramble individual program)		
<b>Output</b>	4 IP (MPTS) output over UDP and RTP/RTSP protocol through GE1 and GE2 port, Unicast and Multicast		
<b>Miscellaneous</b>	Dimension(W×L×H)	482mm×410mm×44mm	
	Approx weight	3.6kg	
	Environment	0~45℃(work); -20~80℃ (Storage)	
	Power requirements	100~240VAC, 50/60Hz	

## Working Principle

