



NDS3304BT

Transmodulator



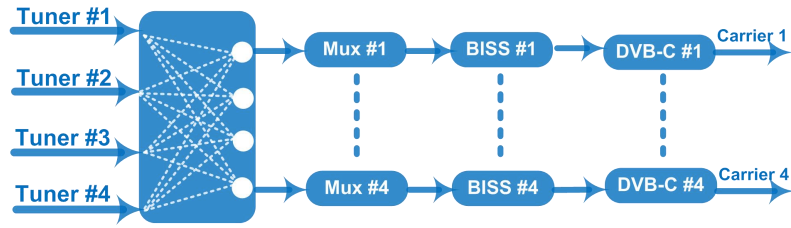
Outline

NDS3304BT is a cost-effective DVB-C/T Transmodulator developed according to DVB-C and DVB-T standard. It supports 4 Tuners input. After demodulating, re-multiplexing, then it gives 4 DVB-C RF or 2 DVB-T RF out. BISS function is also embedded to descramble multiplexed programs. With the features of low cost and high performance, it provides various solutions for operators to re-distribute contents.

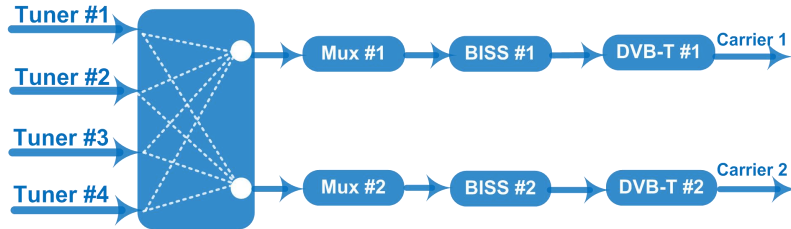
Key Features

- Demodulating + re-multiplexing +BISS descrambling +modulating in one box
- Support 4 Tuners input (3*DVB-S/S2/S2X+1*DVB-S/S2/S2X or 1*DVB-C/T/T2/ISDB-T)
- Support BISS descrambling (up to 60Mbps)
- Support 4 DVB-C RF or 2 DVB-T RF out
- Support PID pass-through
- LCD / keyboard and web-based NMS operations and upgrade via web

Principle Chart



4 DVB-C RF Out



2 DVB-T RF Out

Specifications

Input		4 Tuner input (3*DVB-S/S2/S2X+1*DVB-S/S2/S2X or 1*DVB-C/T/T2/ISDB-T)			
Tuner Section	Multi-mode tuners switchable	DVB-C	Input Frequency	60 MHz~890 MHz	
			Standard	J.83A (DVB-C), J.83C	J.83B
			Constellation	16/32/64/128/256 QAM	64/256 QAM
		DVB-T/T2	Input Frequency	60 MHz~890 MHz	
			Bandwidth	5/6/7/8 M bandwidth	
			ISDB-T	Input Frequency	60 MHz~890 MHz
		DVB-S	Input Frequency	950-2150MHz	
			Symbol rate	QPSK: 0.5~45 Msps	
			FEC Demodulation	1/2, 2/3, 3/4, 5/6, 7/8	
	Max input bitrate		≤140 Mbps		
	DVB-S2		Input Frequency	950-2150MHz	
			Symbol rate	QPSK/8PSK/16APSK: 0.5~45 Msps; 32APSK: 0.5~40 Msps	
			FEC Demodulation	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	
		Max input bitrate	≤140 Mbps		
DVB-S2X	Input Frequency	950-2150MHz			
	Symbol rate	QPSK/8PSK/16APSK: 0.5~45 Msps; 8APSK: 0.5~40Msps; 32APSK: 0.5~40Msps			

			FEC Demodulation	<p>QPSK: 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10, 13/45, 9/20, 11/20</p> <p>8PSK: 3/5, 2/3, 3/4, 5/6, 8/9, 9/10, 23/36, 25/36, 13/18</p> <p>8APSK: 5/9-L, 26/45-L</p> <p>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</p> <p>32APSK: 3/4, 4/5, 5/6, 8/9, 9/10, 2/3-L, 32/45, 11/15, 7/9</p>	
			Max input bitrate	≤140 Mbps	
Multiplexing	Maximum PID Remapping	128 per input channel			
	Function	PCR accurate adjusting			
		Generate PSI/SI table automatically			
			PID Remapping		
BISS Descrambling	Mode 1, Mode E (Up to 60Mbps) (descramble individual program)				
Modulation	DVB-C	Standard	J.83A (DVB-C), J.83B, J.83BC		
		Constellation	.83A	J.83B	J.83C
			16/32/64/128/256 QAM	64/256 QAM	64/256 QAM
		Bandwidth	8M	6M	6M
		MER	≥43dB		
		Symbol rate	5.000~7.000Msps adjustable		
		RF Out	F typed, 75Ω impedance		
			4*DVB-C RF output (adjacent carriers)		
		RF frequency	50~960MHz, 1KHz step		
		RF output level	-20~ -5dBm, 1 dBm step		
	Output Bitrate	Max 51.6 Mbps per channel			
	DVB-T	Standard	EN300744		
		Constellation	QPSK, 16QAM, 64QAM		
		Bandwidth	6M, 7M, 8M		
		MER	≥42 dB		
		Guard Interval	1/4, 1/8, 1/16, 1/32		
		FFT mode	2K, 4K, 8K		
		MER	≥42 dB		
		Code Rate	1/2, 2/3, 3/4, 5/6, 7/8		
		RF out	F typed, 75Ω impedance		
			2*DVB-T RF output		
RF frequency		30~999.999MHz, 1KHz step			
RF output Level	-20~-5 dBm, 1 dBm step				
Output Bitrate	Max 31.668Mbps per channel				

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System	LCD/keyboard and web management	
	Language: English	
	upgrade via Web	
General	Dimension (W×L×H)	482mm×180mm×44mm
	Approx weight	4 kg
	Environment	0~45°C(Work); -20~80°C (Storage)
	Power requirements	100~240VAC, 50/60Hz



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Add: No. 10 & No. 12, Wuxing Fourth Road, Wuhou District, Chengdu 610045, Sichuan, PR China

www.dsvb.com/English Tel: +86-028-85558928 Fax: +86-028-85585255 Email: sunyu@dsvb.com