

Front and Back Panel Illustration



Outline

NDS2406 DVB-T/T2 modulator is our new product developed complying with the DVB-T/T2 standard. With its advanced modulating technology, this modulator can effectively make use of the ground spectrum resources and make it possible to provide reliable signals for fixed, mobile and portable devices. Compared with DVB-T, the channel capacity is increased by 30% under the similar carrier to noise ratio (CNR) threshold.

Moreover, this device can be upgraded and controlled through network system, which allows it to be widely used in setting up digital broadcasting network and provide good signals for scientific laboratory and DVB-T/T2 STB.

Features

• Fully complying with EN302 755 and EN300 744 standard



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- 4 ASI input ports
- 1 IP input over UDP protocol
- 10MHz input/loop out, 1PPS input/loop out
- DVB-T/T2 RF out in one device
- Supports single PLP
- Support MISO and SISO
- Support MFN net mode
- Supports non-linear and linear digital pre-distortion (DPD)
- Constant temperature crystal oscillator, as high as 0.1ppm stability
- Support PID bypass and passthrough
- Keyboard operation and LCD display
- Web Network management system

Specifications

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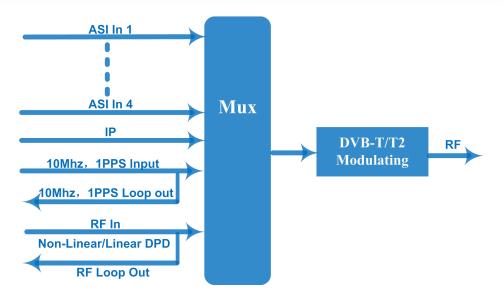
	TS input over 4 ASI and 1 IP port (UDP)			
Input	10MHz reference clock input and loop out, BNC interface			
	1PPS input and loop out, BNC interface			
Multipl	Maximum PID	128 input per channel		
exing	Remapping			
	Function	PID remapping (automatically or manually)		
		Accurate PCR adjusting		
		Generate PSI/SI table automatically		
		Standard	EN302 755	
		Mode	Mode A: single-PLP;	
		PLP	QPSK, 16QAM, 64QAM, 256QAM	
		Constellation	(Normal or Rotated)	
Modulation	DVB-T2	L1 Post	BPSK, QPSK, 16QAM, 64QAM	
		Constellations		
		FEC Length	Short(16K), Normal (64K)	
		FEC Rate	1/2, 3/5, 2/3, 3/4, 4/5, 5/6	
		Pilot Pattern	PP1 - PP8	
		Guard Interval	1/128, 1/32, 1/16, 19/256, 1/8, 19/128, 1/4	
		FFT Mode	1k, 2k, 4k	
			8k, 16k, 32k (normal or extended)	
		Bandwidth	5MHz, 6MHz, 7MHz, 8MHz	
		Net Mode	MFN	

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	DVB-T	Standard	EN300 744	
		FFT	2K, 8K	
		Bandwidth	5MHz, 6MHz, 7MHz, 8MHz	
		Constellation	QPSK, 16QAM, 64QAM	
		Guard interval	1/4, 1/8, 1/16, 1/32	
		FEC	1/2, 2/3, 3/4, 5/6, 7/8	
		Net Mode	MFN	
RF Out	Connector	N Type, 50ΩImpedance		
	RF range	30~999Mhz, 1hz stepping		
	Output level	-25~+3 dBm, 0.1db stepping		
	ATT			
	MER	> 43db		
	Shoulder	>56dB		
	Level			
System	LCD display, keyboard and web Network management			
	Supporting software upgrading through network			
General	Demission	482		
	(W*L*H)	482mm×410mm×44mm		
	Temperature	0~45°C(operation),-20~80°C(storage)		
	Power supply	AC 220V±10%,50/60Hz		

Principle Chart





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