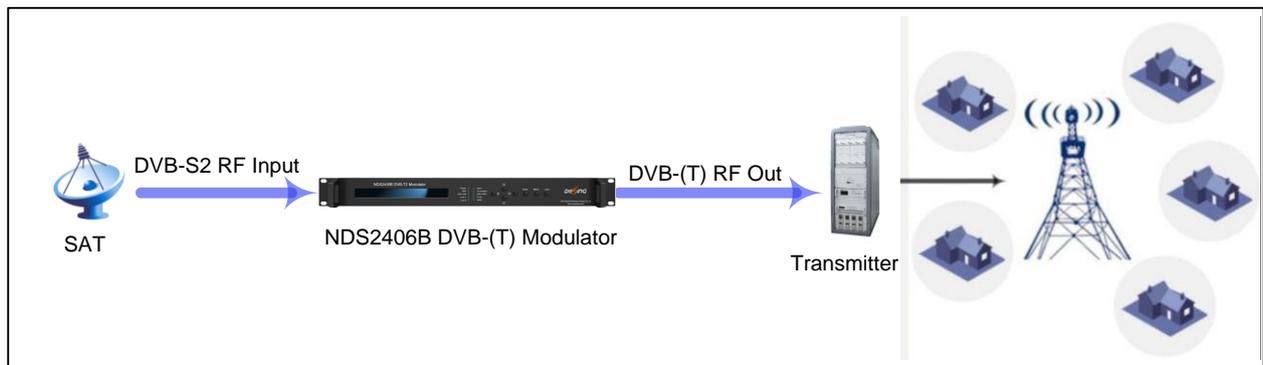




NDS2406B

DVB-(T) Modulator



Outline

NDS2406B DVB-(T) modulator is DEXIN's all-in-one device which integrates demodulation, trans-mux and modulation in one case to convert signals into DVB-(T) RF output and IP output over UDP. The device equipped with 2 DVB-S/S2 tuner inputs, one GPS 10MHz input port and one 1PPS input port. The output modulated signals are to be received by TVs, STB and etc. This DVB-(T) modulator also simultaneously supports adaptive linear and nonlinear digital pre-distortion.

BISS function is also embedded to descramble programs from tuner input.



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Features

- Support 2*S/S2 Tuner input
- 10MHz input/loop out, 1PPS input/loop out
- DVB-(T) RF out in one device, multi-booting
- IP (1*MPTS over UDP) mirror RF output
- Support MISO and SISO
- High performance output: MER>43dB, shoulder level>56dB
- Supports non-linear and linear digital pre-distortion (DPD)
- Constant temperature crystal oscillator, as high as 0.1ppm stability
- Support LCD display and keyboard
- Support BISS descrambling
- Web-based Network management

Specifications

Input	2*S/S2 Tuner input		
	10MHz reference clock input and loop out, BNC interface		
	1PPS input and loop out, BNC interface		
	1 RF input for DPD -25dbm~+5dbm		
Modulator	DVB-T	Standard	EN300 744
		FFT	2K, 8K
		Bandwidth	5M, 6M, 7M, 8M
		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	SFN/MFN
	Hierarchical modulation	Alpha=1, 2, 4	
RF Out	Connector	N Type, 50ΩImpedance	
	RF range	30~960Mhz, 1hz stepping	
	Output level ATT	-25~+3 dBm, 0.1db stepping	
	MER	> 43db	
	Shoulder Level	>56dB	

System	LCD display, keyboard and web Network management	
	Supporting software upgrading through network	
General	Demission (W*L*H)	482mm×410mm×44mm
	Weight	4.8kg
	Temperature	0~45℃(operation),-20~80℃(storage)
	Power supply	AC 220V±10%,50/60Hz
	Power Consumption	34W

Principle Chart

