



NDS2406G

DVB-T/(T) Modulator

### Front and Back Panel Illustration



### Outline

NDS2406G DVB-T/(T) modulator is our new product developed complying with the DVB-T/(T) 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/(T) STB.



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## Features

- Fully complying with EN302 755 and EN300 744 standard
- 2ASI input ports
- 2 IP input over UDP protocol
- 10MHz input/loop out, 1PPS input/loop out
- DVB-T/(T) RF out in one device
- Supports single PLP
- Support MISO and SISO
- Support MFN net mode
- Supports non-linear digital pre-distortion (DPD)
- Constant temperature crystal oscillator, as high as 0.1ppm stability
- Support PID bypass and pass-through (option)
- Keyboard operation and LCD display
- Web Network management system

## Specifications

<b>Input</b>	TS input over 2 ASI and 2 IP port (UDP)	
	10MHz reference clock input and loop out, BNC interface	
	1PPS input and loop out, BNC interface	
<b>Multipl exing(o ption)</b>	<b>Maximum PID Remapping</b>	128 input per channel
	<b>Function</b>	PID remapping (automatically or manually)
		Accurate PCR adjusting
		Generate PSI/SI table automatically
DVB-(T)	Standard	EN302 755
	Mode	Mode A: single-PLP;
	PLP Constellation	QPSK, 16QAM, 64QAM, 256QAM (Normal or Rotated)
	L1 Post Constellations	BPSK, QPSK, 16QAM, 64QAM
	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

<b>Modulation</b>		FFT Mode	1k, 2k, 4k 8k, 16k, 32k (normal or extended)	
		Bandwidth	5MHz, 6MHz, 7MHz, 8MHz	
		Net Mode	MFN	
	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		
<b>RF Out</b>	Connector	N Type, 50ΩImpedance		
	RF range	150~999Mhz, 1hz stepping		
	Output level ATT	-15~+5 dBm, 0.1db stepping		
	MER	> 43db		
	Shoulder Level	>56dB		
<b>System</b>	LCD display, keyboard and web Network management			
	Supporting software upgrading through network			
<b>General</b>	Demission (W*L*H)	482mm×410mm×44mm		
	Temperature	0~45°C (operation), -20~80°C (storage)		
	Power supply	AC 220V±10%,50/60Hz		

## Principle Chart

