



NDS2403G

ATSC-T Modulator



Key Features

- Full complying with ATSC A/53 standard
- Dual channel DVB-ASI/SMPTE-310M input, automatic switch-over and hot backup
- Dual IP input ports, GE ports, over UDP/RTP
- RF range: 50MHz~860MHz,1Hz stepping
- Front panel and IP remote control
- RS coding, data interleaving, Trellis coding
- Supports adaptive linear or non-linear digital pre-distortion (DPD)
- Adopts constant-temperature crystal oscillator, the frequency stability can be up to 0.1 PPM
- Excellent RF output performance: EVM, MER, SNR, shoulder level and etc.
- Remote maintenance, monitoring and software upgrading
- NMS, Keyboard and LCD operation



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Product Overview

NDS2403G ATSC-T modulator is DEXIN's newly designed product supporting DVB-ASI and SMPTE-310 input. After modulating the inputting signals through ATSC 8-VSB, it can output RF signals with the range between 50~860MHz. In other words, NDS2403G ATSC-T modulator supports the coding and modulating mode under ATSC-T A/53 standard. It also supports adaptive non-linear and linear digital pre-distortion (DPD). Additionally, the system of this device can be on line controlled and upgraded through network, which can be widely used in ATSC-T digital broadcasting network setup and the testing for ATSC-T set top box design.

Specifications

Input		Self-adapted 2 Asi/SMPTE 310M input 2 ASI ports input, one for hot backup, BNC interface
		Dual IP input ports, one for hot backup , over UDP/RTP, Unicast/Multicast, GE ports
		1 channel 10MHz reference clock input
Modulation	Standard	ATSC A/53
	Constellation	8VSB
	Bandwidth	6 MHz
	FEC	RS(208 188)+Trellis
RF output	Port	N Type, 50Ω impedance
	RF range	50~860Mhz,1Hz stepping
	Output Level ATT	-20dBm~6dBm,0.1dB stepping
	Shoulder Level	60dB
	MER	≥ 40dB
DPD	Non-linear DPD	over 10dB ACPR improvement (normally)
	linear DPD	over 10dB non-flatness adjustment(normally)
System		LCD display & keyboard operation, NMS, Chinese & English operation display
		Software upgraded through network
General	Demission(WxLxH)	482mm×455mm×44.5mm
	Weight	6.0kg
	Temperature	0~45°C(operation),-20~80°C(storage)
	Power Supply	AC 110V±10%,50/60Hz or AC 220V±10%, 50/60Hz
	Consumption	25W



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Principle chart

