



NDS2401G

DVB-T Modulator



Outline

The NDS2401G DVB-T Modulator is a high performance modulator developed according to the DVB-T (EN300744) standard. It adopts advanced framing structure, channel encoding and modulation technology. It supports both MFN (Multi-frequency network) and SFN (single frequency network). In order to improve the output performance of the transmitter, this DVB-T modulator can support nonlinear digital pre-distortion. Moreover, this device facilitates the local and remote control with web software.

Features

1. Fully complying with DVB-T standard (EN300744)
2. 2 ASI in & 2 IP (DATA1& DATA2) input for hot backup input, 1 RF in, 10MHz reference clock and 1PPS in
3. Support both SFN and MFN
4. Transmission mode: 2k, 8k
5. Transmission bandwidth 5M, 6M, 7M and 8M
6. Excellent phase noise and MER performance, MER \geq 42db



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Add: No. 10 & No. 12, Wuxing Fourth Road, Wuhou District, Chengdu 610045, Sichuan, P.R. China
www.dsdtvb.com/English Tel: +86-028-85558928 Fax: +86-028-85585255 Email: sunyu@dsdtvb.com

7. Support spectrum invert
8. RF output range 50~1000MHz, 1Hz step
9. Supports adaptive non-linear digital pre-distortion (DPD)
10. Constant temperature crystal oscillator, frequency stability is high up to 0.1ppm
11. Full-size front panel LCD display, keyboard and web management

Specifications

Input	2channels ASI input& 2 IP input, can only select 1 input as source, but all 4 inputs ports are hot backup	
	IP with UDP/RTP protocol, with Multicast/Unicast	
	IP with PCR adjust feature also	
	GPS 10Mhz reference clock input, BNC port	
	GPS 1PPS input, BNC port	
1 RF input for DPD -25dbm~+5dbm		
Modulation	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
RF output	Interface	N type, 50Ω impedance
	RF range	50~1000MHz, 1hz step
	RF output level	-15dbm~+5dbm, 0.1db step
	RF level offset	-3dbm~+3dbm, 0.1db step
	MER	≥ 42db
ASI output	2 ASI ports output for the passthrough of the input ASI Signal, both ASI out are the same	
Non-linear DPD	over 10db ACPR improvement (normally)	
System	LCD display & keyboard operation, web management	
	Software upgrading through NMS port	
General	Demission (W*L*H)	440mm×414mm×44.5mm
	Weight	4.9kg
	Temperature	0~45℃(operation), -20~80℃(storage)
	Power Supply	AC 110V±10%, 50/60Hz or AC 220V±10%, 50/60Hz
	Power Consumption	To be tested

Principle Chart

