TY-2630A 300W
MMDS Indoor Digital Transmitter

Technical Specification

V3.01

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Overview

Thanks for choosing our products.

TY-2630A 300W MMDS Indoor Digital Transmitter is a kind of digital facility working on S band (2.0-2.9GHz). This equipment adapted latest generation power amplifier chip LDMOS. It supports both analog and digital modulation and adapts to multiple modulation modes like DVB-S/S2, DVB-T/T2, nQAM, ISDB-T/TB and etc. AGC/ALC function guaranteed the reliable operation of the equipment by maintain constant power output of transmitter. Its LCD display shows the parameters of output power, working voltage and AGC, can monitor the abnormal values real-time. It also has auto-alarming and lightning-proof functions. As the advantages mentioned above, this equipment can widely apply to point to point and point to multi-point transmission and signal coverage.

Main features:

- With touchable LCD control panel to adjust the key parameters： Ouput power range，Input level range，AGC range and monitor the abnormal values real-time.
- Adapted new generation power amplifier (transmitting power increased and un-linear distortion effectively decreased).
- Aluminum structural design, with natural heat dissipation or forced air cooling design, equipment operational reliability can be improved.
- Signal debugging design (maintenance can be simply carried out).

- Simple debugging procedure, signal opening can be achieved without specialized instruments.
- Multiple choices in power level and local frequency.
- Extended interface for remote control.
- Small in size, easy for construction and maintenance.

Technical Specifications

Model	TY-2630A	
RF Output Power(P-P)	300W	
Shoulder Ratio(dBc)	≥40	64QAM
	≥30	QPSK
RF Output Frequency	2000~2900MHz(frequency band carrier signal takes could be set arbitrarily)	
	Max Bandwidth: within 300MHZ	
RF Output Interface	50Ω/N connector	
	Return Loss: 20dB	
RF Frequency Response	BW: 200MHz	
	Passband Fluctuation: ≤2.0dB	
	Any Within 10MHz: ≤1.0dB	
Group Delay Characteristics	≤40nsec	
Local Frequency	2033MHz(or specified by user)	
	Stability: 1×10^{-6}	
Local Ocillator Phase Noise	NΦ≤-100dBc/Hz@10KHz	
IF Input Level	-25~-10dBm	
IF Input Frequency	467~667MHz(or specified by user)	
IF Input Interface	75Ω/F connector	
	Return Loss: 15dB	
In-band Spur Restraint	-60dBc(relative signal level)	
Automatic Level Control	20dB	
Environmental Conditions	Working Temperature Range: -20°C~+45°C	
	Humidity: no condensation	
	Relative Humidity: 0~95% nonsaturation	
Working Voltage	AC 220V±10%,50/60Hz	

Packaged Size (L*W*H)	87*59*46cm
Packaged Weight(Kg)	About64kg

TYE Series Transmitters

Item	Product name	Frequency Range	Output Power	System
1	VHF Analog TV Transmitter	170MHz-230MHz	20W-2KW	PAL/NTSC/SECAM
2	VHF Digital TV Transmitter	170MHz-230MHz	5W-300W	DVB-T/T2/S/S2/C,QAM Omnidirectional transmission
3	VHF Live/Mobile Transmitter	300MHz-350MHz	5W-30W	Point to point transmission
4	UHF Analog TV Transmitter	470Mhz-860MHz	20W-2KW	PAL/NTSC/SECAM
5	UHF Digital TV Transmitter	470Mhz-860MHz	10W-1KW	DVB-T/T2/S/S2/C,QAM Omnidirectional transmission
6	L Band TV Transmitter	1.3GHz-1.5GHz	20W-50W	DVB-T/T2/S/S2/C,QAM Omnidirectional transmission；Point to point transmission
7	S Band (MMDS) Digital TV Transmitter	2.0GHz-2.9GHz	10W-500W	DVB-T/T2/S/S2/C,QAM Omnidirectional transmission；Point to point transmission , PAL/NTSC/SECAM(Analog signal)
8	8GHz TV Transmission Module Set	7.8GHz-8.3GHz	500mW-2W	DVB-S/S2(8PSK/QPSK) Omnidirectional transmission; Point to point transmission
9	Ku Band (MVDS) TV Transmitter	10.7GHz-12.0GHz	200mW-24W	DVB-S/S2(8PSK/QPSK) Omnidirectional transmission; Point to point transmission