

TY-1750A 500W Indoor UHF Digital Transmitter

Technical Specification V3.01

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Overview



TY-1750A works on UHF band (470-860MHz). It is a kind of product(meet euro-standard) that specially designed to supply common or pilot frequency coverage and subsidiary station by consuming small and medium power for terrestrial digital TV transmission. It applies to modulation modes like DVB-S, DVB-S2, nQAM, DVB-T, DVB-T2 and DTMB-T and so on. It is applicable to built-up areas, basement, tunnel and

remote mountainous areas. Its main advantages include installation convenience and simple process in debugging and maintenance, etc. And in any combination of multiple antenna-feeder system it can supply local coverage and subsidiary station of wireless digital signal in the blind area.

Features

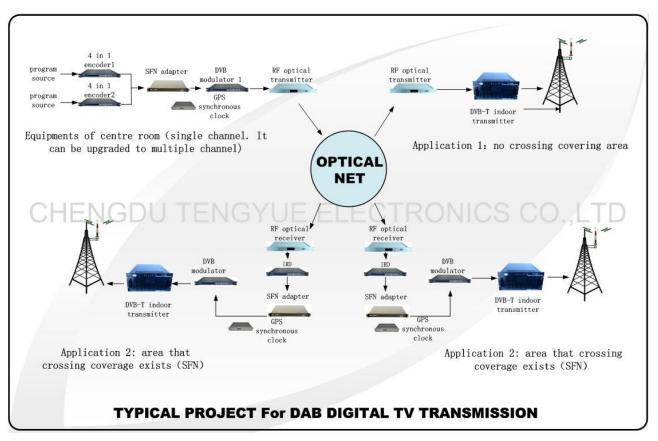
- Wide-band frequency response and low noise design.
- Design of low power consumption and linearization advances emitting power of the transmitter and reduces nonlinear distortion.
- Very low group delay feature, suitable for digital signal transmission.
- ALC keeps output of constant power, output VSWR detecting protection.
- Apply to single-channel or multi-channel UHF digital television transmission system.
- Be used in the Wide-band frequency repeating of HFC, or MMDS digital TV signal.
- Realize wireless network coverage of digital TV at a low cost.
- Modular design simplifies installation, field services and upgrade.
- Automatic and manual switching backup systems available.
- Build-in lightning protector with current-dividing series power prevents lighting surge and instant overvoltage.
- Indoor type with large LCD panel system real time working condition, maintenance and management of system can be achieved easily.

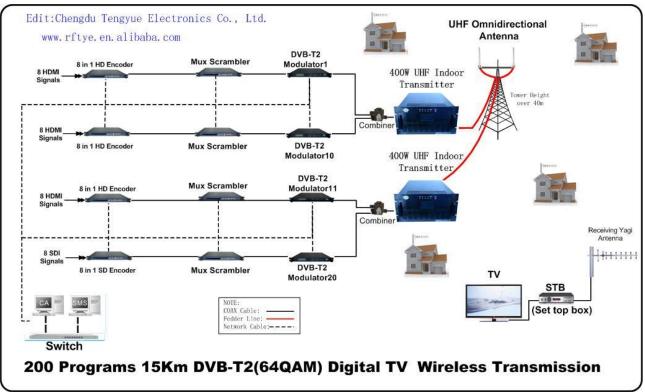
Technical Specification

RF Output Frequency	470~860MHz(frequency band carrier signal takes could be set arbitrarily)			
Output Power	500W			
Bandwidth	6MHz/7MHz/8MHz or customized multi-channel system Maximum Bandwidth≤80MHz			
Modulation Mode	COFDM/16QAM/32QAM/64QAM, etc.			
Shoulder Ratio	≥40dBc(COFDM/64QAM)			
RF Output Interface	50Ω-7/16connector Return Loss: 20dB			
RF Frequency Response	BW: 80MHz Passband Fluctuation: ≤2.0dB Any Within 10MHz: ≤1.0dB			

Group Delay Characteristics	≤40nsec		
IF Input Level	-55~-10dBm		
Input Frequency	470~860MHz		
IF Input Interface	75Ω/F connector Return Loss: 15dB		
In-band Spur Restraint	-60dBc(relative digital signal level)		
Automatic Level Control	≥20dB		
Gain Modulation Error	Gain Control: 0~20dB,error≤±0.5dB		
	Gain Control: 20~31dB,error≤±0.75dB		
Gain Control Range	0~31dB, 1.0dB stepping		
Environmental Conditions	Working Temperature Range: -20°C~+45°C mental Conditions Humidity: no condensation Relative Humidity: 0~95% nonsaturation		
Working Voltage	AC 220V±10%,50/60Hz Power Consumption: depending on power levels		
Package Size (L*W*H)	95*64*50cm		
Package Weight(Kg)	65kg		

Typical system





TYE Series Transmitters

ltom	Item Product name	Frequency	Output	System
Item		Range	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-2KW	DVB-T/T2/S/S2/C,QAM Omnidirectional transmission
6	L Band TV Transmitter	1.3GHz-1.5GHz	20W-200W	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 BUC/transmitter	7.8GHz-8.3GHz	500mW-100W	DVB-S/S2(8PSK/QPSK) Omnidirectional transmission; Point to point transmission
9	Ku Band(MVDS) TV Transmitter	10.7GHz-12.7GHz	200mW-50W	DVB-S/S2(8PSK/QPSK) Omnidirectional transmission; Point to point transmission