DTT5900

200W-600W DVB-T2 Transmitter

DIBVISION | DIBSYS

200W

300W-500W

600W

DTT5900 is a professional DVB-T2 Digital Transmitter with 200W/300W/400W/500W/600W power optional. Its compact structure design has greatly saved space for your room.The frequency range of DTT5900 is from 470MHz～806MHz, it has a high linear and high reliability as it takes high gain and high linear LDMOS tube amplifier module. Furthermore, it supports AGC function to keep sustained power output.

DIBSYS is always ready to meet customer requirements by making it available to output signal carrier or multi-carrier, adapt to signal channel and broadband transmission. We performs all required DVB-T2 transmitter measurements, from the initial acceptance testing for the transmitter, to measurements performed during commissioning and preventive maintenance.

Key Features

- Improved signal transmitting quality
- Intelligent, modularized amplifier unit, takes high power gain and high linear LDMOS tube amplifier module design
- Support MFN and SFN system
- Low power consumption super linear design, improve the transmission power of the transmitter, and reduce the nonlinear distortion
- Support AGC function, with sustained power output, to approve the transmitter have good stability and reliability
- LED on the front panel supporting alarm and signal monitor
- Air cooling system with low consumption and low noise
- Multi lightning protection design, good protection for whole equipment.
- 24 hour working unmanned
- Easy to install, user friendly design

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TECHNICAL SPECIFICATIONS

Basic Parameter

Standard	DVB-T2
Modulation Mode	support 4/16/32/64 QAM mode
Working frequency	470MHz～806MHz
Output rating	200W/300W/400W/500W/600W Optional
Frequency accuracy	MFN: ≤±100Hz / SFN：≤±1Hz
L.O. Phase Noise	≤ - 70dBc@10Hz ≤ - 90dBc@100Hz ≤ - 100dBc@1kHz ≤ - 105dBc@10kHz ≤ - 115dBc@100kHz ≤ - 130dBc@1MHz
variation of output power	±0.2dB
Inband spectrum ripple	±0.5dB (fc±3.591MHz)
Shoulder Level	≤-40dB@ Central frequency, IF±4.2MHz
MER	≥36dB

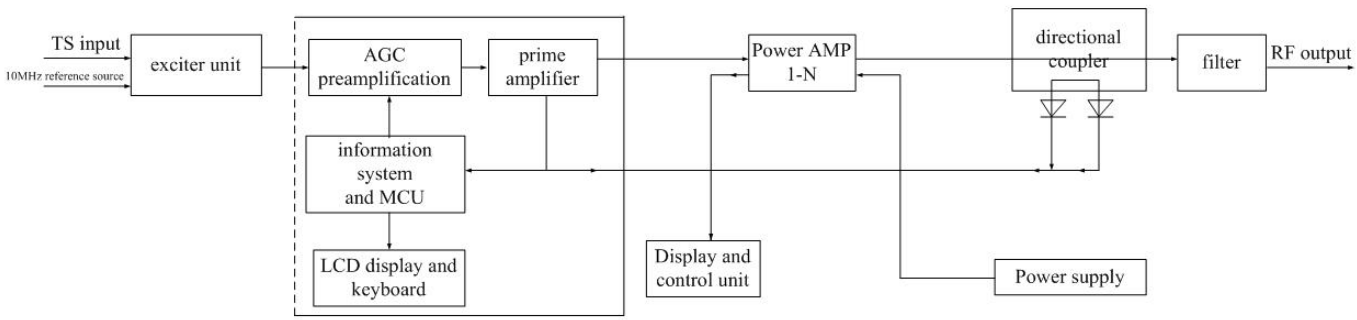
Output Character

Output impedance	50Ω
output reflection loss	≥20dB
Output interface	200W/300W/400W: L29-K; 500W/600W: 1-5/8", directly-fed

Environment Condition

Working temperature	-20~+50℃
Storage temperature	-30~+75℃
Relatively humidity	＜95% (25℃ no condensation)
Cooling mode	inside cooling fan
atm press	86~106kPa
power supply	AC, 220±20%, 50Hz AC, 380±20%, 50Hz
Machine room requirement	less dust, no friction

Principle Chart



Main Components List (Standard Configuration)

S/N	Component	200W	300W	400W	500W	600W	Remarks
		Qty (piece)					
1	Cabinet/Rack	N/A	1	1	1	1	These configuration is standard. If customer need certain redundancy component, it is available and negotiable.
2	Power Supply	1 (Built-in)	1	1	1	2	
3	Exciter	1 (Built-in)	1	1	1	1	
4	Power Amplifier	1 (Built-in)	1	1	1	2	
5	Monitor Unit	N/A	1	1	1	1	
6	Filter	1 (Built-in)	1	1	1	1	

