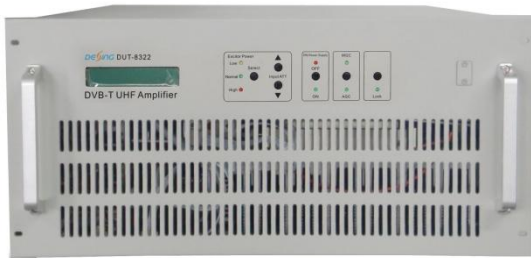


# DUT-8322 DVB-(T) MUDES Transmitter (200W-600W)

200W



300W-500W



600W

## Product Overview

DEXIN DUT-8322 transmitters are professional DVB-(T) transmission system which give sustained power output and with compact structure design to save space. It supports to work in SFN and MFN system. It can work with single-carrier mode and multi-carrier mode, and support single channel and broadband transmission.

This transmitter has a very high linear and high reliability as it takes high power gain and high linear LDMOS tube amplifier module.

With its good reputation at home and abroad, DUT-8322 transmitters have been widely used in HD/SD digital TV single transmit and broadcasting system.

## Key features

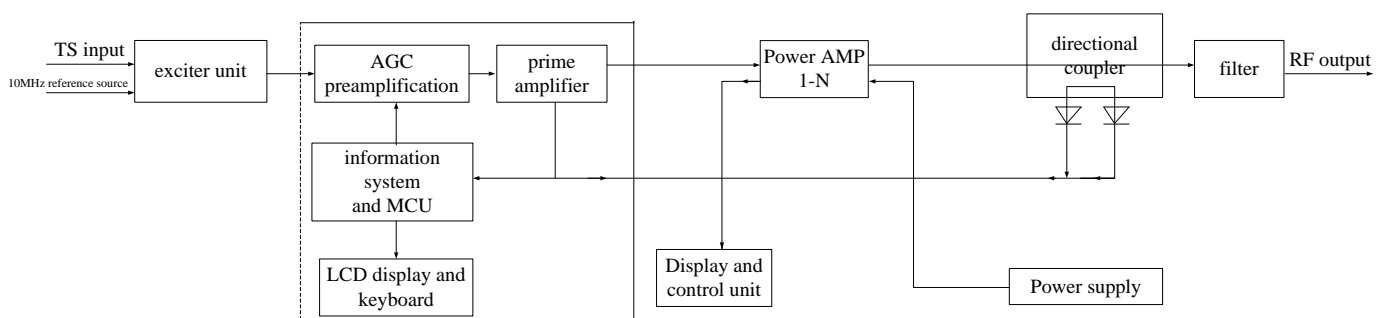
- **Improved signal transmitting quality**
- **Intelligent, modularized amplifier unit, takes high power gain and high linear LDMOS tube amplifier module design**
- **Low power consumption super linear design, improve the transmission power of the transmitter, and reduce the nonlinear distortion**
- **Support AGC function, with sustained power output, to approve the transmitter have good stability and reliability**
- **Support MFN and SFN system**
- **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**

## Technical specification

	Item	Technical Spec
<b>Basic Parameter</b>	Standard	DVB-(T)
	Modulation Mode	support 4/16/32/64 QAM mode
	Working frequency	470MHz~806MHz
	Output rating	200W/300W/400W/500W/600W Optional
	Frequency accuracy	MFN: $\leq \pm 100\text{Hz}$ / SFN: $\leq \pm 1\text{Hz}$

	L.O. Phase Noise	$\leq - 70\text{dBc}@10\text{Hz}$
		$\leq - 90\text{dBc}@100\text{Hz}$
		$\leq - 100\text{dBc}@1\text{kHz}$
		$\leq - 105\text{dBc}@10\text{kHz}$
		$\leq - 115\text{dBc}@100\text{kHz}$
		$\leq - 130\text{dBc}@1\text{MHz}$
	variation of output power	$\pm 0.2\text{dB}$
	Inband spectrum ripple	$\pm 0.5\text{dB}$ (fc $\pm 3.591\text{MHz}$ )
Shoulder Level	$\leq -40\text{dB}@$ Central frequency, IF $\pm 4.2\text{MHz}$	
MER	$\geq 36\text{dB}$	
<b>Output Character</b>	Output impedance	50 $\Omega$
	output reflection loss	$\geq 20\text{dB}$
	Output interface	200W/300W/400W: L29-K; 500W/600W: 1-5/8", directly-fed
<b>Environment Condition</b>	Working temperature	-20~+50 $^{\circ}\text{C}$
	Storage temperature	-30~+75 $^{\circ}\text{C}$
	Relatively humidity	<95% (25 $^{\circ}\text{C}$ no condensation)
	Cooling mode	inside cooling fan
	atm press	86~106kPa
	power supply	AC, 220 $\pm 20\%$ , 50Hz AC, 380 $\pm 20\%$ , 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	