DUT-8313 DVB-(T) Digital Transmitter

Outline

DUT-8313 is a professional DVB-(T) digital transmitter with 800W/1000W/1200W power optioanal. Its compact structure design has greatly saved space for your room.

The frequency range of DUT-8313 is from 470MHz～806MHz. This transmitter 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.

Dexin 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.

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Key Features

- **Intelligent and modularized amplifier unit, takes high power gain and high linear LDMOS tube amplifier module design**
- **Low power consumption and super linear design to improve the transmission power, and reduce the nonlinear distortion**
- **Support AGC function with sustained power output to allow the transmitter a good stability and reliability**
- **Support MFN and SFN system**
- **Support fault diagnosis function**
- **Full digital front panel control, easy operation.**
- **LED on the door supporting alarm and signal monitor**
- **Stabilized-power supply with wide range of voltage and high efficiency**
- **Cooling system with low consumption and low noise**
- **Multi lightning protection measures, good protection for whole equipment.**
- **24-hour working unmanned, user friendly design**
- **Easy to install, elegant appearance**

Technical Specifications

Input	System standard	DVB-(T)
	frequency	470MHz~806MHz
	Input Level	-20 dBm±3dB (87dbuv ±3dB)
	Input reflection loss	≥15dB
	Input Interface	'N'
Output	RF output power	800W/1000W/1200W optional
	Output frequency	470MHz~806MHz (For Single Channel: Every 8M available; For Broadband Channel: consecutive 60M available)
	Output impedance	50Ω
	frequency response	±0.5dB
	Shoulder level	≥36dB@central freqnencyIF±4.2MHz
	MER	≥33dB

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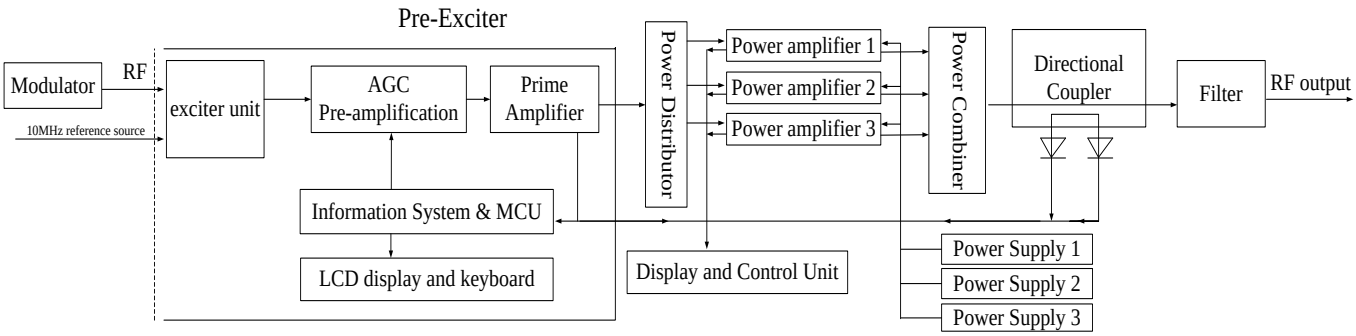
	output reflection loss	≥20dB
	variation of output power	±0.25dB
	In-band stray	≤-60dBc
	Out-of-band suppression	≥65dBc
	Output interface	1-5/8
General Parameters	Working temperature	-20~+50℃
	Storage temperature	-30~+75℃
	Relatively humidity	＜95% (25℃ no condensation)
	Cooling mode	inside cooling fan
	atm press	86~106kPa
	power supply	AC, 220V±10%/50Hz
	Machine room requirement	less dust, no shake
	Dimension(L×W×H)	850mm×600mm×1695mm

System Diagram



PS: This diagram is a reference for 800W and 1000W transmitter. For 1200W transmitter, there are 4 power amplifiers and 4 power supplier included.

Main Components List

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S/N	Component Name	Specs	Qty	Remarks
1	Final Power Amplifier	300W	3 pcs	For 800W
		400W	3 pcs	For 1000W
		400W	4 pcs	For 1200W
2	Pre-Exciter		1 pc	
3	Monitor Unit		1 pc	With LCD monitor on front door
4	Power Supply for Final Amplifier		3 pcs	For 800W/1000W
			4 pcs	For 1200W
5	Filter		1 pc	As per order. (In case multiple single-channel transmitters are involved, a power combiner is required.)
6	Cabinet		1 pc	
7	Cooling Fan		1 set	2 sets (with 1 set for backup) optional as order or needed
Accessaries				
8	Hard Feeder	Φ40, 2 meter long	1	These parts are standard configuration. If there are special requirement, please indicate when place order.
9	Elbow		3	
10	Hoop		3	
11	Hose Clamp		13	
12	Central Pin		3	
13	Flange	Φ40	1	
14	antenna		1	As per order
15	Feeder			As per order
16	Combiner		1	As per order

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