DFT-7313 FM Audio Broadcast Transmitter

Outline

DFT-7313 (1K Watt) is Dexin's newest generation of FM audio transmitter with low and medium power.

It adopts advanced third generation of FM modulation technologies: digital signal processing (FPGA) and digital frequency synthesis technology (DAC). DFT-7313 takes use of the advantage of digital audio processing technology to provide users a CD quality hearing experience with high linear and high gain LDMOS tube amplifier module.

Key Features

- **Fully complying with national standard (GB/T4311-2000) and industrial standard (GY/T169-2001)**

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- **Adopt high gain and high linear LDMOS tube amplifier module design**
- **Adopt international advanced digital signal processingtechnology (FPGA) for audio encoding**
- **Support AGC function with sustained power output (±0.1dB) to ensure the transmitter a good stability and reliability**
- **Adjustable output power as needed (50W～1000W)**
- **Low power consumption and super linear design to improve the transmission power, and reduce the nonlinear distortion**
- **LED on the front panel supporting alarm and signal monitor**
- **High-efficiency power supply with wide range of voltage (AC100～264V), suitable for different working condition**
- **Equiped with multiple lightning protection measures**
- **Support fault self-diagnosis and self-protection**
- **Air-cooled system with low consumption and low noise**
- **Multi lightning protection measures, good protection for whole equipment**
- **Full digital front panel control, easy operation**
- **24-hour working unmanned, user friendly design**

Technical Specifications

S/No.	Item	Unit	Technical Index	Industrial Standard	Remark
1	Output Power	W	1000	--	
2	Frequency	MHz	87～108	--	
3	Carrier frequency allowable deviation	Hz	≤500	±1000	
4	Sparious Radiation	dB	＜-60dB and＜ 1mW	＜-60dB and＜ 1mW	

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5	parasitic amplitude modulation noise		dB	≤-60	≤-50	
6	Pilot frequency deviation		Hz	±1	±1	
7	Deviation (100% modulation)		kHz	±75	——	
8	pre-emphasis		μs	50	——	
9	Distortion (100% modulation)	L	%	＜0.2	＜0.5	
		R				
10	Frequency response (without emphasis, de-emphasis)	L	dB	±0.2	±0.5	
		R				
11	Frequency response (with emphasis, de-emphasis)	L	dB	±0.2	±1	
		R				
12	SNR (100% modulation)	L	dB	≥70	≥60	
		R				
13	L/R Separation	L→R	dB	＞60	＞40	
		R→L				
14	L/R level diffrence		dB	＜0.2	＜0.4	

Specifications and Environment Conditions

Item	Item	Technical Requirements	Remark
Output and Input Specifications	Input interface	XLR	
	Output interface	L29-50K	
Environment condition	Working temperature	-20～+50℃	
	Storage temperature	-30～+75℃	
	Relatively humidity	＜95% (25℃ no condensation)	
	Cooling mode	inside forced air cooling	
	atm press	86～106kPa	
	power supply	AC, 100～264V/50Hz	
	machine room	Less dust, shock-free	
	Demission	454×440×129.5mm (L×W×H)	19 Inches

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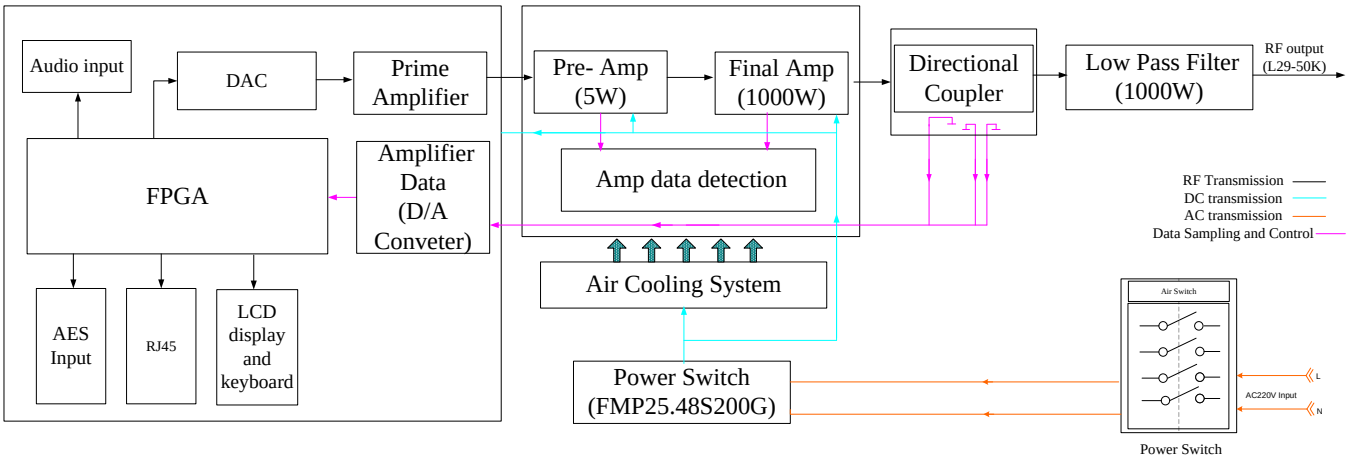
System Principle



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