

# DFT-72XX FM stereo Broadcast Transmitter



### Outline

DFT-72XX series products are Dexin's newest generation of FM stereo Broadcast 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-72XX series transmitters take use of the advantage of 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)
- > Adopt high gain and high linear LDMOS tube amplifier module design

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- Adopt international advanced signal processing technology (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 (10W~10kW)
- 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
- > Equipped 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
- Two Transmitters can be connected simultaneously by coaxial switch, and one for back up

#### **Technical Specifications**

S/No.	Item	Unit	Technical Index		Remark
1	Output Power	W	500		
2	Frequency	MHz	1kW≤	65.5~87; 87~108	
			1 kW >	87~108	
3	Frequency deviation	Hz	≤500		



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4	Sparious Radiation		dB	≤-70	
5	parasitic amplitude modulation noise		dB	-60	
6	Pilot frequency deviation		Hz	±1	
7	S signal 38kHz Residual component		dB	<-40	
8	Deviation (100% modulation)		kHz	±75	
9	pre-emphasis		μs	50	
10	Distortion (100%	L	0.4	<i>c</i> 0.2	
	modulation)	R	%	<0.2	
11	Frequency response (without	L	dB	±0.2	
	emphasis, de-emphasis)	R			
12	Frequency response (with	L	dB	±0.2	
	emphasis, de-emphasis)	R			
13	SNR (100% modulation)	L	dB	≥75	
		R			
14	L/R Separation	L→R	dB	>70	
		R→L			
15	L/R level diffrence		dB	<0.1	

# **Specifications and Environment Conditions**

Item	Item	Technical Requirements	Remark
	RDS input	BNC interface(57KHz)	
Superifications	Input interface	XLR, AES/EBU(Optional)	
Specifications	Output interface	L29-50K	
	Working temperature	-20~+50°C	
	Storage temperature	-30∼+75°C	
	Relatively humidity	<95% (25°C no condensation)	
Environment	Cooling mode	inside forced air cooling	
condition	atm press	86~106kPa	
	power supply	AC, 100~264V/50Hz	
	machine room	Less dust, shock-free	



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	10~30W	482×420×44mm
	100W	482×420×88mm
Demission	300~1kW	482×560×176mm
(L×W×H)	3kW	600×800×1080mm
	5kW	600×1050×1695mm
	10kW	650×1050×1695mm

# System Principle



## **Order Information**

DFT-7211: 10W	DFT-7212: 100W	DFT-7213: 1kW	
DFT-7231: 30W	DFT-7232: 300W	DFT-7233: 3kW	DFT-7214: 10kW
DFT-7251: 50W	DFT-7252: 500W	DFT-7253: 5kW	



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