

FUTV9451 Digital TV Transmitter (Out-room type)



Outline

The FUTV9451 digital TV transmitter (Out-room type) is the newest digital TV transmitter product of our company, which is capable of supporting network organizations of single frequency net and multi-frequency net and supporting single carrier mode and multi-carrier mode. Besides, FUTV9451 also supports the transmitting methods of single channel and broad band; and it provides with band width of 470MHz-566MHz or 606MHz-806MHz. Furthermore, the FUTV9451 is composed of an import power amplifier with high gain and high linearity LDMOS tube, which greatly increases the linearity and reliability of the product. And because of the AGC function of FUTV9451, the stability of output power, the reliability and performance of the product are excellent.

FUTV9451 digital TV transmitter (Out-room type) can be widely used in HDTV/SDTV digital TV signal transmitting or broadcasting system as well as digital broadcasting.

Features

- | Provided with intelligent and modular power amplifier and import power amplifier with high gain and high linearity LDMOS tube.
- | Designed with low power consumption and super linearity which greatly increases the transmitting power of the transmitter and reduces the non-linear distortion products.
- | With AGC function for ensuring the stability and reliability of the product.
- | Alarming and signal monitoring function via LED indication.
- | Switching voltage stabilizer with broad stabilizing range and high efficiency.
- | One-to-one allocation of amplifier and switching power supply, high efficiency and low connection loss.
- | With function of multiple lightning protection.
- | Capable of automatically working for 24 hours.
- | Aluminum shell with modular structure.
- | Elegant appearance.

Specifications

Basic parameter	TV system standard	DTMB-T/DVB-T
	Modulation mode	QAM4/16/32/64
	Working frequency	470MHz-566MHz/ 606MHz-806MHz
	Rated output power	1W, 5W, 10W, 20W, 30W, 50W, 100W, 200W
	Output characteristic impedance	50 Ohm

	Output power variation	$\pm 0.25\text{dB}$
	In band stray	-60dBc
	Out-of-band suppression	65dBc
	Frequency response	$\pm 0.5\text{dB}$
	Modulation error ration (MER)	32dB
	Inter-band ratio	36dBatcentral frequency $\text{IF} \pm 4.2\text{MHz}$
	Output reflection loss	20dB
	Output interface	N type

Environmental condition	Working temperature	-20G+50C
	Storage temperature	-30G+75C
	Relative humidity	< 95%
	Atmosphere	86-106KPa
	Power supply	AC 220 \pm 10%/50Hz
	Size	depended on the rated power