FUTV3627 Digital MMDS Broadband Transmitter (Indoor Model)

Product Overview

FMUSER FUTV3627 Digital MMDS (Multichannel Microwave Distribution System) Transmitter can support single-channel or multi-channel broadband transmission.

Single-channel transmission often requires a microwave power combiner to compound single-channel microwaves and send it to the antenna through waveguide. In this way, it can enhance the microwave power and reach a long distance.

However, Multichannel-channel broadband transmission requires no power combiner but connect the IF source to transmitter through a mixer. After frequency conversion, filtering and amplification process, it sends the signal to the antenna through

waveguide. In this way, microwave power is low and the transmission distance is short.

This MMDS transmitter can provide a signal channel with maximum 200MHz broadband. It has a low local oscillator phase noise to make it possible to be applied both in analog and digital transmission. Advanced super linear amplification technology is adopted to boost the transmitting power and reduce the non-linear distortion and overall consumption at the same time.

Also, AGC function can sustain a constant power output, and the circulator can provide VSWR protection. All these features make FUTV3627 widely used in broadcasting system.

Key features

- low local oscillator phase noise, available for both analog and digital transmission
- 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
- Full digital front panel control, easy operation.
- LCD window displaying output power, digital attenuator status, AGC/MGC working status and voltage.
- Easy to install, elegant appearance

Technical Specifications

Basic Parameters	Working frequency band	2500MHz~2700MHz
	In-band Flatness	±0.75
	In-band Intermodulation	≤-70dBc
	Clutter suppression	≤-65dBc
	harmonic suppression	≤-70dBc
	Local oscillator phase noise	≤-90at10KHz dBc/Hz
	Local oscillator carrier deviation	±500Hz
	IF Range	467MHz~667MHz
	Input Level	≥-15dBm
Input	Interface	N type
	Impedance	50 Ohm
	Output power	200W
	MW Output impedance	50 Ohm
Output	Output interface	N type
	Working temperature	-20~+45 C
	Relatively humidity	＜95%, 25 Cno condensation
Environment condition	Cooling mode	inside cooling fan
	power supply	AC, 220V±10%/50Hz
	Machine room requirement	less dust, no shake

Appearance and Illustration

Principle Chart