

1W~200W Broadband Digital TV Transmitter (Outdoor)



Function and Characteristics:

Adopt broad-band transmission for RF digital TV signal that come from transmission link, such as HFC, microwave, etc.

Considered various application environment and conditions, and the device is designed with high reliability to realize all-weather and nobody monitor.

With high-power broad frequency band synthesis technology, adopted LDMOS high-power amplifier module, the device's redundancy is high. Nonlinear feed correction technology, make the device extremely high linear and reliable.

ALC circuit guarantees power output stable, which ensures the stability and excellent performance of device.

Intelligentized controlling and remote monitoring functions, could configure and monitor equipment parameters through RS-232 interface support SNMP protocol optional. With GSM message autoalarm module, and fixed timing starting up and shutdown functions.

Alarming and monitoring functions, which could be displayed by LED in front panel.

Wide voltage stability range and high efficiency of power supply.

With over-voltage, over-current, over-heat, over-excitation, low-voltage, short-circuit and over-VSWR auto-protective functions. with multiple-measure of thunder-proof, it could run securely.

Forced air cooling design with low power consumption and low noise.
 Adapt to adjacent-channel transmission, and dispense with combiner while multi-channel transmission.
 With self intellectual property rights. Develop power amplifier, passive equipments, monitoring system independently.
 All technical specifications can meet or exceed the national standards.



Technical Specification:

» Fundamental Parameters	
» Television Standards	» Comply with DTMB/ CMMB/DVB-T standards
» Frequency Bandwidth	» Select 100MHz bandwidth from 470MHz to 860 MHz (Applicable for side-channel)
» Rated Output Power	» 1W~200Wrms
» Output Impedance	» 50 Ω , Output Connector: N type
» Output Power Variation	» ± 0.25 dB
» Out-of-band Suppression	» ≥ 65 dBc
» Input Characteristics	
» Input Frequency	» 470MHz~860MHz
» Input Level	» 0dBm ± 10 dB
» Input Return Loss	» ≥ 18 dB
» Input Connector	» 'N' type/socket
» Output Characteristics	
» RF Output Power	» 1W~200Wrms
» Output Frequency	» 470MHz~860MHz
» Output Impedance	» 50 Ω '
» Phase Noise	» ≤ -110 dBc (10kHz 1M Bandwidth)
» Response	» ± 0.25 dB
» Modulation Error Ratio	» $\leq 1.6\%$
» Output Signal Shoulder and Out-of-band Rejection	» 37dB@ IF 4.2MHz/CH
» Output Return Loss	» ≥ 18 dB
» Environmental Factors	
» Working Temperature	» -25~+55
» Storage Temperature	» -30~+70
» Relative Humidity	» 95% 25 No condensation at 25
» Cooling	» Forced air cooling with built-in fan
» Atmosphere Pressure	» 86~106Kpa
» Power Supply	» Single-phase AC, 220V $\pm 15\%$ 47~63Hz
» Machine Room	» Few dust, No oscillation and impact
» Dimensions	» 50W: 460(L) \times 350(W) \times 150(D)mm3 (Depends on power classes)