

TY-3060 6W X Band Digital Outdoor Transmitter

Technical Specification V3.01

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Overview



Outline

Thanks for your interested in our products.

TY-3060 X band digital outdoor transmitter is a kind of wireless digital TV signal transmission device latest developed by TYE. It works on Ku band (7.8GHz-8.5GHz), and output power 6W and adopts the waterproof outdoor structure. It is designed with modularization, high output power. Its function of AGC, make it to maintain a constant output power transmitter, and ensures stable and reliable operation of the transmitter. It can meet with various modulation modes like COFDM, 16QAM, 32QAM, 64QAM, QPSK and etc.. Comparing to other frequency, the X band transmitter can broadcast more channels, works on high frequency, with the strong ability of anti-interference, wide working bandwidth, all of these make it widely used in wireless signal point to point and omnidirectional transmission link. Its max transmission distance can reach 50km.

Today, this kind of transmitter offers the best technical proposal which can replace MMDS signal coverage.

Main features

- The X series transmitter is specifically researched, designed and produced according to the demands of customers.
- With a wide frequency band, large program capacity and strong ability of anti-interference. Operation frequency: 7800-8500MHz.
- Optional Output Power: 200mW/2W/6W/ 8W.
- With the aluminum alloy material and outdoor structure, its convenient modular design can arrange on antenna directly to reduce the loss of feeder.
- With design of rain-proof and moisture proof around the clock.

- With simple process in installment and debugging.
- Convenience in maintenance.
- Combined Ku series transmitter with MMDS/DVB-T transmitters of TYE, we can build seamless coverage system with higher cost performance.
- With RFU modularization, broadband and high consistency design, super-linear and all-solid-state power amplifier.
- Automatic Level Control in larger dynamic range (ALC); Automatic Gain Control (AGC); adaptation of wide dynamic range in different environments.
- With over-VSWR, over-voltage, over-current, over-heat and lighting auto-protective functions.
- With extended interface for remote control and GSM message auto-alarm system (optional), concentrated monitoring can be achieved.
- With the international and the domestic advanced level of the design and production of equipment.
- Succeed in system construction in Philippines, Laos, Indonesia, Somalia, Mexico, South Africa and other regions and countries.

Model	TY-3060		
Power Level	6W		
RF Output Frequency	7800-8500MHz(frequency band carrier signal takes could be set		
Range	arbitrarily, or specified by user)		
Bandwidth	Suitable for single channel6MHz/7MHz/8MHz		
Bandwidth	Multi-channel Maximum Bandwidth≤300MHz		
Modulation Mode	COFDM/16QAM/32QAM/64QAM/QPSK		
Power Levels	200mW/2W/4W/ 8W/10W/12W/16W/24W optional		
RF Output Interface	BJ80 waveguide connector		
	Return Loss: 20dB		
	BW: 200MHz		
RF Frequency Response	Passband Fluctuation: ≤2.0dB		
	Any Within 10MHz:≤1.0dB		
Group Delay Characteristics	≤40nsec		
IF Input Level	-25~-10dBm		
IF Signal Input Frequency	950~2150MHz(or customized)		
	75Ω/F connector		
IF Input Interface	Return Loss: 15dB		
In-band Spur Restraint	-60dBc(relative digital signal level)		
Automatic Level Control	evel Control ≥20dB		
Gain Control Error	Gain Control: 0~20dB,error≤±0.5dB		
	Gain Control: 20~31dB,error≤±0.75dB		

Technical Specifications

Gain Control Range	0~31dB, 1.0dB stepping		
	Working Temperature Range: -20°C~+45°C		
Environmental Conditions	Humidity: no condensation		
	Relative Humidity: 0~95% nonsaturation		
Working Voltage	AC 220V±10%,50/60Hz		
Package Size (L*W*H)	61*43*41cm		
Package Weigh	32Kg		
Remote Control	Remote administration and SMS alarm function(optional)		

TYE Series Transmitters

Item	Product name	Frequency Range	Output Power	System
1	VHF Analog TV Transmitter	170MHz-230MHz	20W-2KW	PAL/NTSC/SECAM
2	VHF Digital TV Transmitter	170MHz-230MHz	5W-300W	DVB-T/T2/S/S2/C,QAM
3	VHF Live/Mobile Transmitter	300MHz-350MHz	5W-30W	Point to point transmission
4	UHF Analog TV Transmitter	470Mhz-860MHz	20W-2KW	PAL/NTSC/SECAM
5	UHF Digital TV Transmitter	470Mhz-860MHz	10W-1KW	DVB-T/T2/S/S2/C,QAM
6	L Band TV Transmitter	1.3GHz-1.5GHz	20W-50W	DVB-T/T2/S/S2/C,QAM Point to point transmission
7	S Band (MMDS) Digital TV Transmitter	2.0GHz-2.9GHz	10W-500W	DVB-T/T2/S/S2/C,QAM, Point to point transmission , PAL/NTSC/SECAM(Analog signal)
8	8GHz TV Transmission Module Set	7.8GHz-8.3GHz	500mW-2W	DVB-S/S2(8PSK/QPSK) Point to point transmission
9	Ku Band (MVDS) TV Transmitter	10.7GHz-12.0GHz	200mW-24 W	DVB-S/S2(8PSK/QPSK) Point to point transmission