



TY-3550B 50W Ku Digital Outdoor Transmitter

Technical Specification V3.01

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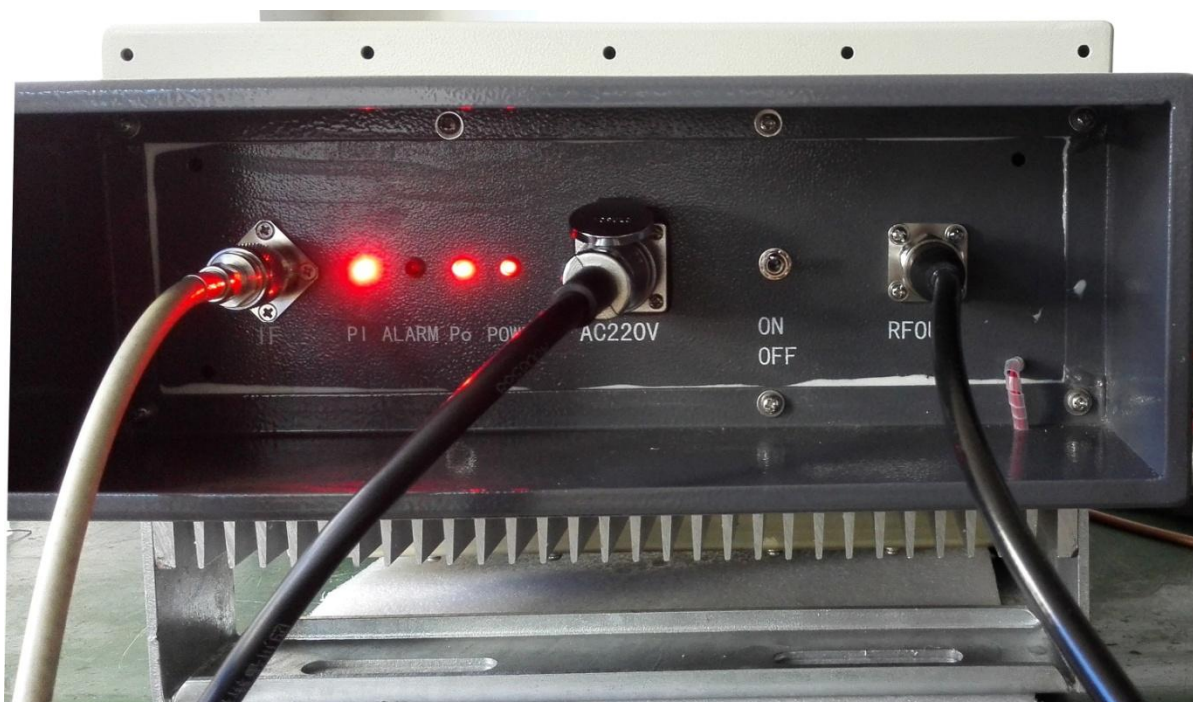
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Overview







Outline

Thanks for your interested in our products.

TY-3550B **50W Ku band digital outdoor transmitter** is a kind of wireless digital TV signal transmission device newly developed by TYE. It works on Ku band (10.7GHz -12.70GHz), and output power 50W. It adopts modularization design and high power output. The series transmitter can be widely used in wireless point to point signal transmission system and omni-directional transmission system. It is applied to multiple digital modulation modes DVB-S/S2 and can also be used for multi-channel digital TV signal coverage.

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

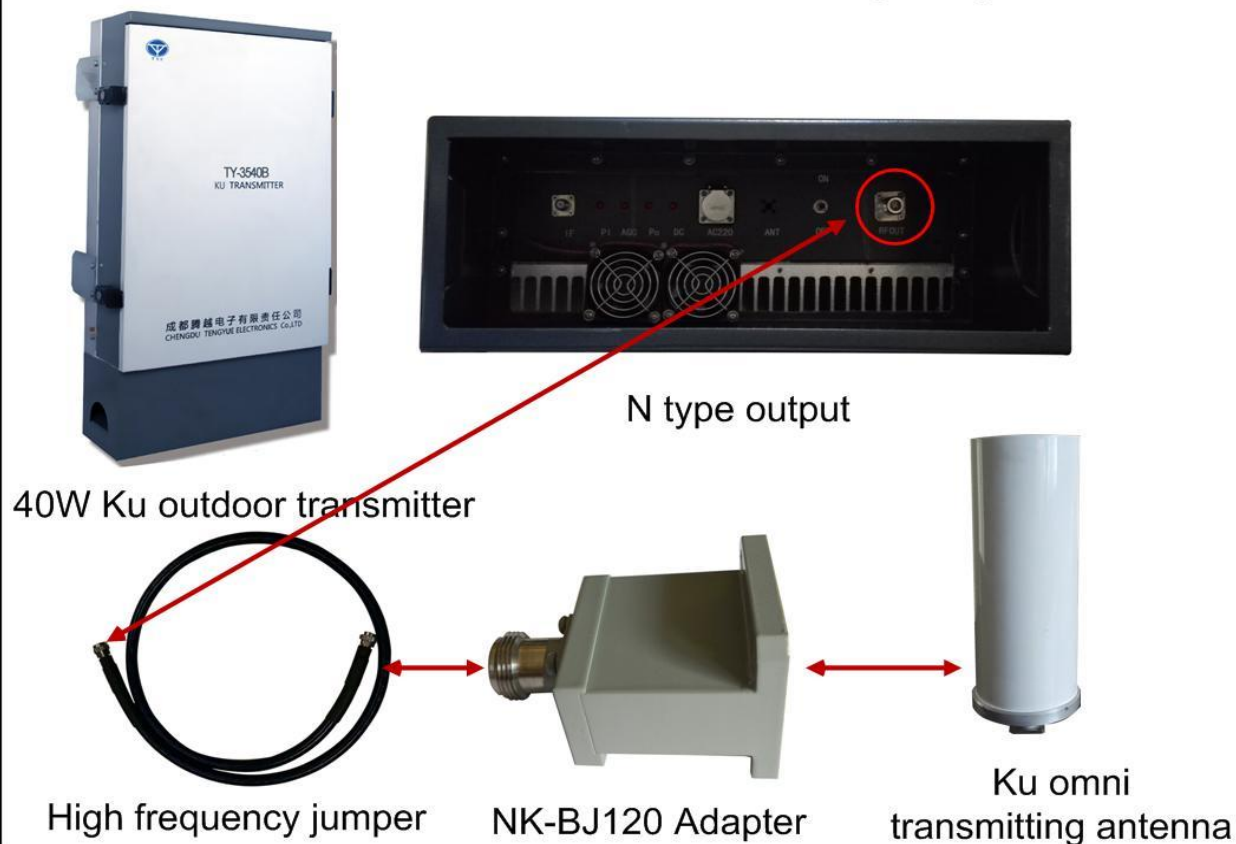
Technical Specifications

Model	TY-3550B
Output Power P_{1dB}	50W
RF Output Frequency Range	300MHz@10.7~11.7GHz 300MHz@11.7~12.7GHz (frequency band carrier signal takes could be set arbitrarily, or

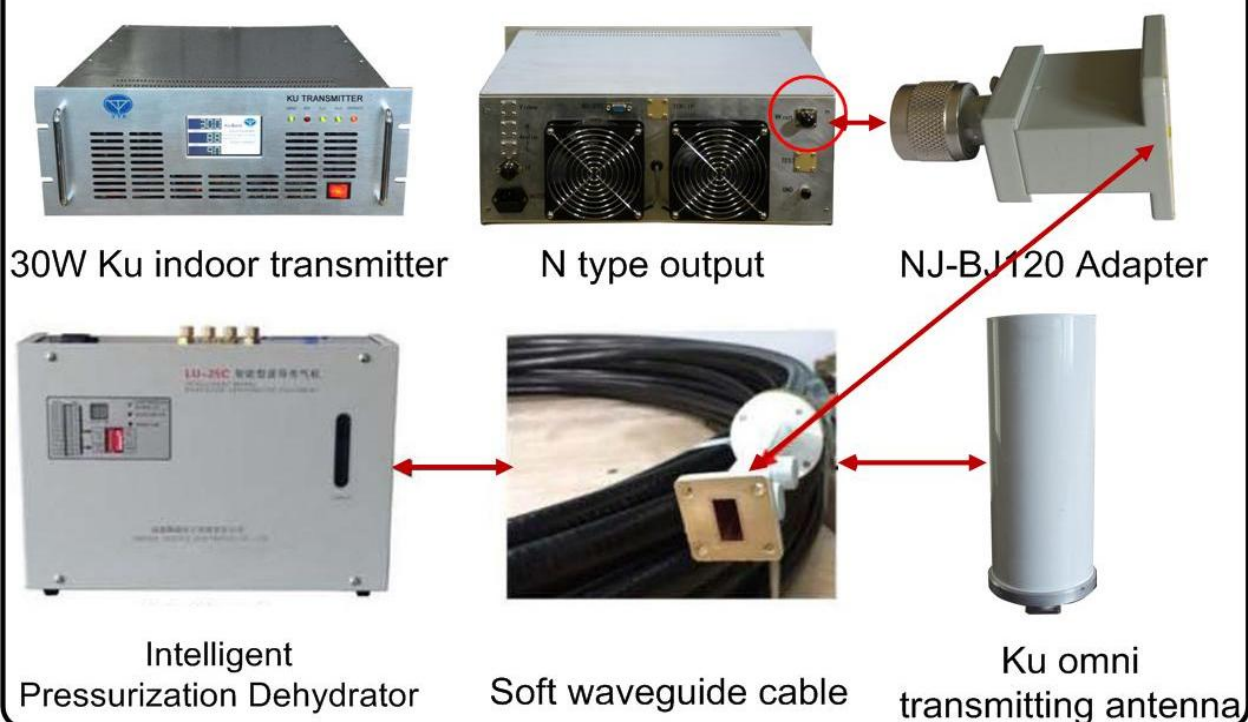
	specified by user)
Bandwidth	Maximum Bandwidth≤300MHz
Modulation Mode	DVB-S/S2
RF Output Interface	N50K Return Loss: 20dB
RF Frequency Response	BW: 300MHz Passband Fluctuation: ≤2.0dB Any Within 10MHz:≤1.0dB
Group Delay Characteristics	≤40nsec
IF Input Level	-25~-10dBm
IF Signal Input Frequency	950~2150MHz(or customized)
IF Input Interface	75Ω/F connector Return Loss: 15dB
In-band Spur Restraint	-60dBc(relative digital signal level)
Automatic Level Control	≥20dB
Gain Control Error	Gain Control: 0~20dB,error≤±0.5dB
	Gain Control: 20~31dB,error≤±0.75dB
Gain Control Range	0~31dB, 1.0dB stepping
Environmental Conditions	Working Temperature Range: -20°C~+45°C Humidity: no condensation Relative Humidity: 0~95% nonsaturation
Working Voltage	AC 220V±10%,50/60Hz
Package Size (L*W*H)	93*41*57cm
Package Weigh	40Kg

Installation the Transmission System:

Ku Outdoor Transmitting System

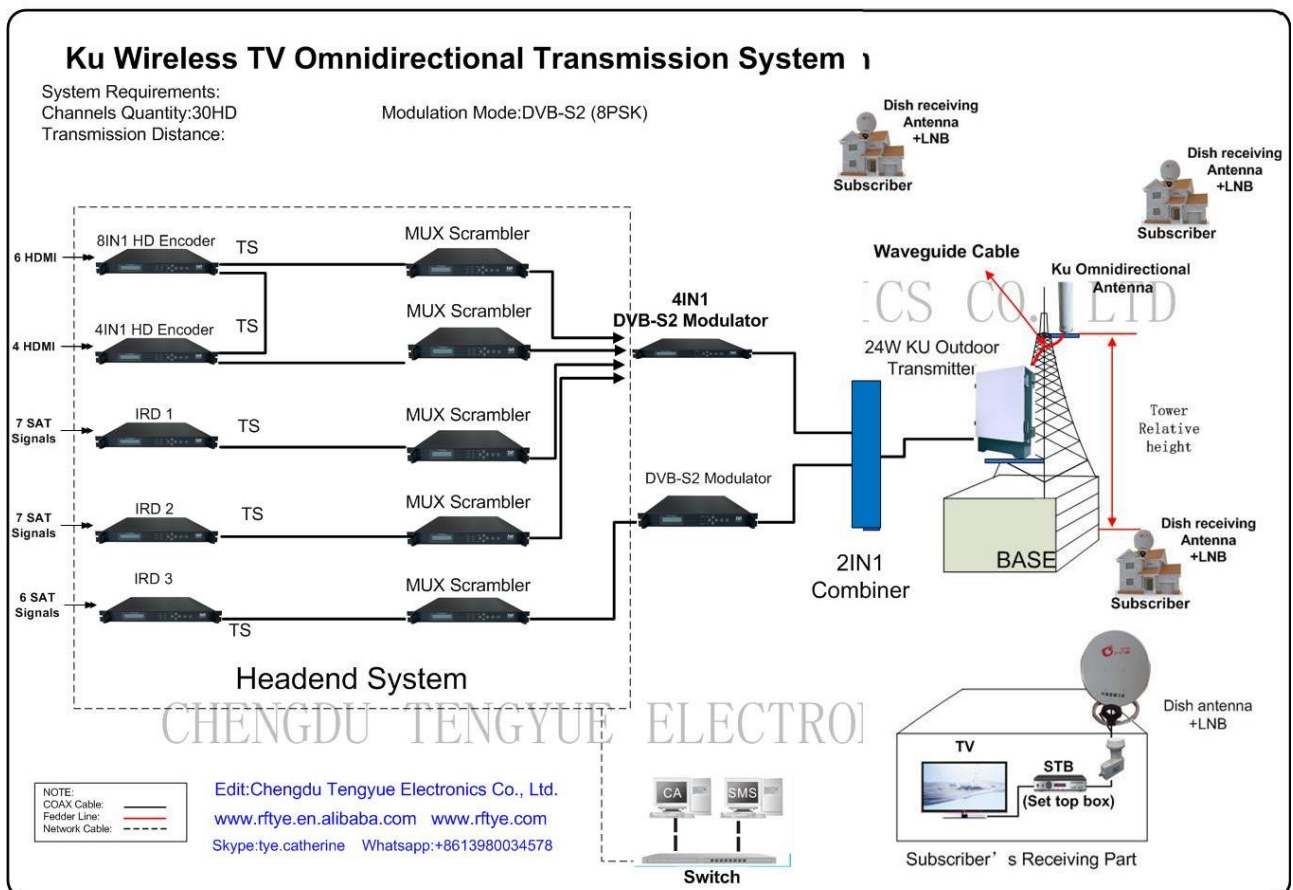


Ku Indoor Transmitting System

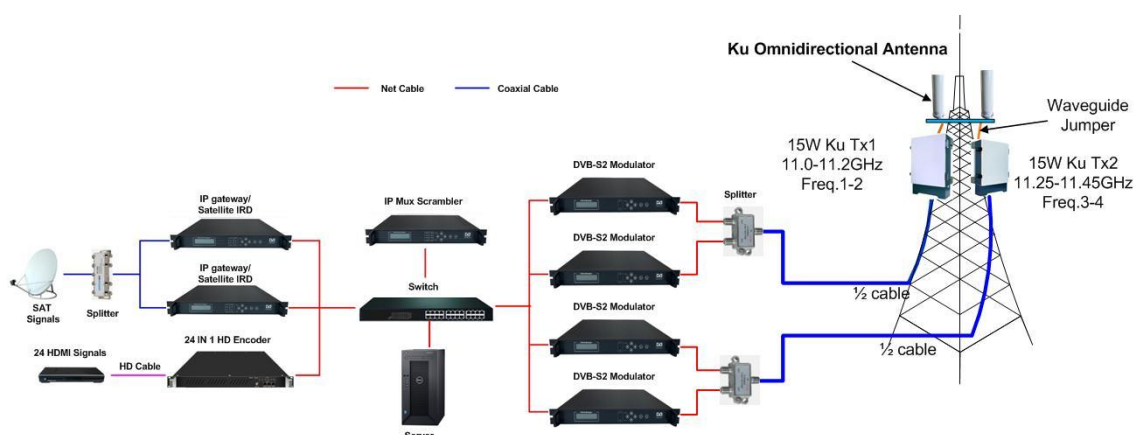




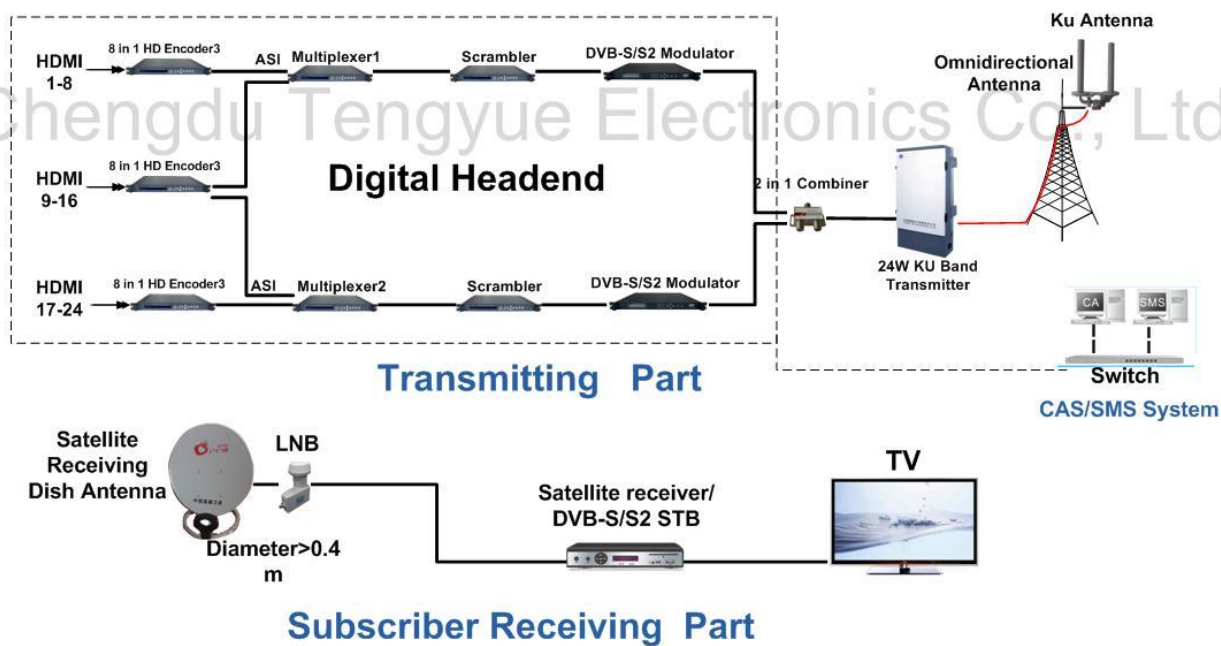
Typical applications:



DVB-S2 Two 15W Ku Band Omni Transmission System



Ku Band DIGITAL TV (24 HD+10Km) TRANSMISSION



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TYE series transmitters:

Item	Product name	Frequency Range	Output Power	System
1	VHF Analog TV Transmitter	118MHz-230MHz	20W-2KW	PAL/NTSC/SECAM
2	VHF Digital TV Transmitter	118MHz-230MHz	5W-400W	DVB-T/T2/S/S2/C,QAM
3	VHF Live/Mobile Transmitter	300MHz-350MHz	5W-30W	DVB-T Point to point transmission
4	UHF Analog TV Transmitter	470Mhz-860MHz	20W-5KW	PAL/NTSC/SECAM
5	UHF Digital TV Transmitter	470Mhz-860MHz	10W-2KW	DVB-T/T2/S/S2/C,QAM
6	L Band Gap Filler TV Transmitter	1.0GHz-1.6GHz	20W-200W	DVB-T/T2/S/S2/C,QAM
7	S Band (MMDS) Digital TV Transmitter	2.0GHz-2.9GHz	10W-500W	DVB-T/T2/S/S2/C,QAM, PAL/NTSC/SECAM
8	C Band BUC TV Transmitter	3.4-3.9GHz 3.7-4.2GHz	5W-120W	DVB-S/S2(QPSK/8PSK) QAM
9	8GHz TV Transmission Module Set	7.8GHz-8.3GHz	500mW-2W	DVB-S/S2(8PSK/QPSK)
10	Ku Band (MVDS) BUC TV Transmitter	10.7GHz-12.7GHz	200mW-50W	DVB-S/S2(8PSK/QPSK)
Above mentioned frequency are standard for manufacturing, special frequency please confirm with us.				

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