



**DVB-T Modulator
WDQ-3300**

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Features

- ◇ Compliant to EN300744 standard
- ◇ Support 6MHz/7MHz/8MHz band width
- ◇ Error correction follows DVB-T standard
- ◇ Operable in QPSK, 16QAM, 64QAM mode
- ◇ Support 2K/8K carrier-wave operating mode
- ◇ Input interface: ASI and SPI (DS3/E3 optional)
- ◇ Input bit rate: 1.5~31.67Mbps
- ◇ Output band width: 6/7/8MHz
- ◇ 188 and 204 packet automatic identification, shows real-time data format
- ◇ Advance output TS efficiency
- ◇ Capable of NIT mapping and sending; supports over 44 NIT mapping frequency
- ◇ Holds 8 groups of PID filtering and re-mapping function
- ◇ Support all PSI/SI data abstraction, modification and analysis

Description

WDQ-3300 DVB-T according to DVB-T standard output the RF signals, which can be transmitted through HFC and MMDS networks. It is widely used in digital TV, data broadcasting, VOD, Internet, video conference systems. The WDQ-3300 has very convenient management interface, the user can complete all operation via local keyboard and LCD display on device, or access through the Ethernet port on device.

Recommended Operating Conditions

Stress in excess of the maximum absolute ratings can cause permanent damage to the device (See Table 1)

Table 1 – Recommended Operating Conditions

Parameter	Symbol	Min.	Max.	Unit
Supply Voltage <small>Note</small>	V	90	250	V
Supply Frequency	F	49	51	Hz
power consumption	C		25	W
Ambient Operating Temperature	Tw	0	+50	C
Storage Temperature	Ts	-25	+55	C
Operating Humidity	H	10	75	%

Note: Support both 110V and 220V supply voltage standards, but please let us know which one do you need when you release order

Specifications

Table 2 – Technical Specifications

Parameter	Symbol	Description	Unit	Remark
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Mechanical dimension				
Height	H	42	mm	About 1U
Width	W	434	mm	About 17"
Depth	D	340	mm	
ASI Input (with loopout)				
Number of ASI input	-	1		
Impedance	-	75		
Connector	-	BNC	NA	
Maximum bit rate	-	108	Mbps	
TS packet format	-	188 or 204	Byte	Automatic detection
Transmission format	-	Data packet or data burst		NA
SPI Input				
Number of SPI input	-	1	NA	
Connector	-	DB-25 female	NA	
Packet format	-	188 or 204	Byte	without channel coding
Maximum bit rate	-	108	Mbps	LVDS mode
E3/DS3 Input(options, with loopout)				
Number of E3/DS3 input	-	1	NA	G.703 standard
Impedance	-	75		
Connector	-	BNC	NA	
TS packet format	-	188 or 204	Byte	
Data bit rate	-	E3/DS3 (34.368/44.736)	Mbps	
10MHz Clock Reference				
Internal Stability	-	0.1	ppm	
External Impedance	-	50		
External Connector	-	BNC	NA	
External Input level		55~70	dBuV	
RF Output(with -20dB test output)				
Impedance	-	75		
Connector	-	BNC	NA	
Frequency	-	48~860	MHz	
Output level	-	100~115.5	dBuV	Step: 0.5 dBuV
Modulation Specification				
Modulation scheme	-	QPSK,16,64QAM		
FEC	-	1/2、2/3、3/4、5/6、7/8		
Guard Interval	-	1/4、1/8、1/16、1/32		
RS encode	-	204byte mode		
IFFT	-	2K/8K		



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Modulation Error Rate	MER	≥40	dB	
Signal to noise ratio	SNR	≥50	dB	
Bit Error Rate	BER	≥9x10E-9		

Applications

- ◇ DVB-T modulation