

## 4 in 1 H.264 HD Encoder with IP output WDE-H420

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### Features

- ◇ Support H.264/AVC High Profile Level4.2
- ◇ Up to 1920x1080P video format
- ◇ Support analog CVBS/PrPbY, SDI, HDMI video inputting interfaces
- ◇ 10/100/1000BASE-T with Auto-negotiation bite rate Ethernet output
- ◇ Zero jitter on IP output
- ◇ Zero jitter generation on TS over IP output
- ◇ Setting program and supplier name through internet
- ◇ Both local or remote network management and online update
- ◇ 10/100M Base-Tx management interface
- ◇ Support brightness, color saturation, contrast and color adjustment
- ◇ Support 4 channels encode





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### Description

WDE-H420 H.264 HD encoder is a new generation professional digital TV encoder which supports up to 1920x1080p video format and equipped with GbE TS over IP output. WDE-H420 is designed and manufactured by Ningbo Youxin Company according to ISO/ICE 14496-10, ITU-T H.264, IEEE802.3 and related international standards. It is a high quality and cost-effective product for H.264 HD video/audio encoding application. WDE-H420 supports SDI, HDMI video input formats, has two DVB-ASI output ports and one GbE port of TS over IP. The user can manage the device easily through the 100M Ethernet port.

### ***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



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### Specifications

Table 2 – Technical Specifications

Parameter	Symbol	Description	Unit	Remark
<b>Mechanical dimension</b>				
Height	H	42	mm	About 1U
Width	W	434	mm	About 17"
Depth	D	340	mm	
<b>ASI Output interface</b>				
Number of ASI input	-	2		
Impedance	-	75	W	
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	
<b>IP Output</b>				
Type		10/100/1000BASE-T		Auto-Negotiation
Connector		RJ45		
Max. bitrate		1.25	Gbps	
Max. throughput		240	Mbps	
Compatible protocol		IP V4, UDP, ARP		Support Multicast/ Unicast
<b>Encoding Parameters</b>				
Video Encoding		4X SDI BNC-75Ω 4X HDMI		
Audio Sampling Freq	Fs	32,44,1,48	KHz	
Audio Rate	Ra	64,128,192,256,384	Kbps	
Audio Performance	-	MPEG-1 Layer 1/2, CD quality, support to one path stereo or double channel		
Resolution	-	1920X1080p and below compatible		
Output rate	Rv	4~108	Mbps	Adjustable
Video Encoding	Fs	32,44,1,48	KHz	
Audio Sampling Freq	Ra	64,128,192,256,384	Kbps	

### Applications

- ◇ Digital TV headend system
- ◇ Video monitoring
- ◇ Video on Demand (VOD)



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- ◇ Remote video education
- ◇ Video conference