

## Features

- ◇ Video compress compliant to ISO/IEC13818-2(MPEG2)
  - ◇ Optional aspect ratio 1:1,4:3,16:9
  - ◇ Composite CVBS, single Pr/Y/Pb (Optional) video and stereo audio inputs
  - ◇ Input video style adaptive, adjustable rate output
  - ◇ Two DVB-ASI outputs
  - ◇ One 10/100/1000Mbps TS over IP Ethernet port with bitrates auto-negotiation able
  - ◇ Zero jitter generation on TS over IP output
  - ◇ Setting program and supplier name through internet and front panel
  - ◇ Both local or remote network management and online update
  - ◇ 10/100M Base-Tx management interface
- Support brightness, color saturation, contrast and color adjustment



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## Description

WDE-H220 HD H.264/AVC 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-H220 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/AVC HD video/audio encoding application. WDE-H220 supports analog CVBS/PrPbY, 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. Parameter

## 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 Note	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
<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		Consistent with the ASI Output	Mbps	
Compatible protocol		IP V4, UDP, ARP		Support Multicast/Unicast
<b>Encoding Parameters</b>				
Video Encoding	-	4:2:0 MP@ML (MPEG-2)		
Audio Sampling Freq	Fs	32,44.1,48	KHz	
Audio Rate	Ra	128,256,384	Kbps	
Audio Performance	-	MPEG-1 Layer 1/2, CD quality, support to one path stereo or double channel		
Resolution	-	Compliant to CCIR601 PAL:720×576 and below compatible NTSC:720×480 and below compatible		
Output rate	Rv	0~15	Mbps	Adjustable



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### Ordering Information

Part Number	Description
WDE-4420B	4 in1 MPEG-2 Encoder, 4 groups of CVBS video inputting port and two-channel audio inputting ports, dual DVB-ASI outputs, 10/100/1000Mbps auto-negotiation TS over IP output

### Applications

- ◇ Digital TV headend system
- ◇ Video monitoring
- ◇ Video on Demand (VOD)
- ◇ Remote video education
- ◇ Video conference