

WinBex-E2210/D2210
MPEG-2 CODEC

WinBex-E8210/D8210
MPEG-2/H.264 Multi CODEC

Main Specifications

	Encoder	Decoder	Specification	
Video	Input Format	Output Format	HD-SDI(SMPTE292M,296M), SD-SDI(SEMPTE259M)	
	Video Format		MPEG-4 AVC/H.264, MPEG-2/H.262	
	Profile / Level		H.264: High422(10bit/8bit), High, Main Level: up to 4.1 MPEG-2 HD:MP@HL, 422P@HL SD:MP@ML, 422P@ML	
	Video Resolution		1080i: 1920/1440x1080, 720p: 1280x720, 576i: 720x576, 480i: 720x480	
	Frame Rate		1080i: 50 / 59.94 / 60, 720p: 50 / 59.94 / 60 576i: 50, 480i: 59.94	
	Video Bit-Rate		H.264: HD:5-80Mbps, SD:1-40Mbps MPEG-2: HD:10-80Mbps , SD:3-15Mbps(MP), 3-40Mbps(422)	
	Aspect Radio		HD: 16:9 SD: 16:9/4:3	
	Delay	—	650ms / 150ms / 10ms *	
	Ancillary		Closed captioning compliant with SMTRE333 SMPTE334, TIMECODE	
Audio	Input Format	Output Format	Embedded Audio: 8ch, AES/EBU: 8ch Analog audio: 4ch, Impedance:600-ohm or 20k-ohm	
	Encoding Format	Decoding Format	MPEG-1 LayerII Mono/Dual Mono/Joint Stereo/Stereo SMPTE302 2/4/6/8ch HE-AAC/MPEG-2 AAC Dolby (AC3 1/0, AC3 2/0) Dolby Digital 5.1CH/Dolby Digital-E Pass Through	
System	Output Stream Type	Input Stream Type	MPEG-2 TS (188/192/204/208byte)	
	Output Interface	Input Interface	2 DVB-ASI, DS3(FEC), 2 Gigabit Ether Ports	
Control	Local Operation		Front Panel	
	Remote Operation		EMS, SNMPv2, Web/GUI	
Internal Test Signal			Video: Color Bar, Audio: 1kHz -18dB/-20dB	
Dimension (WxHxD)			482mm x 44mm x 480mm (1-RU)	
Weight			4.5kg	
Operating Temperature			0℃ - 40℃	
Power Consumption			WinBex-E2210	<50Watt (@220VAC)
			WinBex-D2210	
			WinBex-E8210	
			WinBex-D8210	
Power Source			AC 100 - 240V (Free Voltage)	

* 10ms delay needs option board.

Contribution MPEG-2/H.264 Encoder/Decoder

10bit Support
10ms Delay Support
MPEG-2/H.264
Chroma 4:2:0/4:2:2
Compliant



WinBex-Eseries / WinBex-Dseries
HDTV/SDTV Encoder/Decoder

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Contribution MPEG-2/H.264 Encoder/Decoder

WinBex-Eseries/WinBex-Dseries



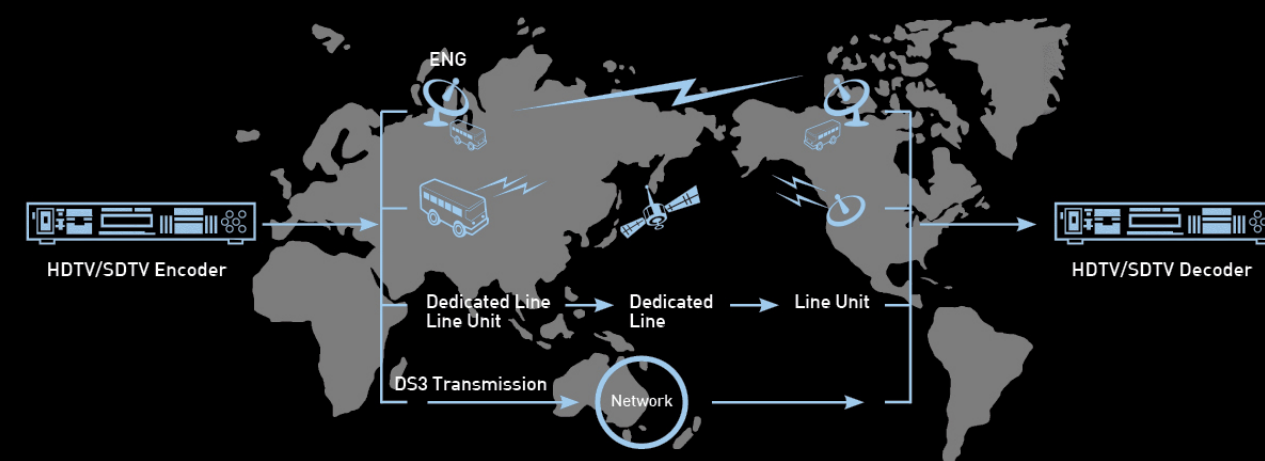
The WinBex-Eseries/WinBex-Dseries is a multi-resolution, multi-format MPEG-2/H.264 encoding/decoding platform that supports up to 4:2:2 10bit, end to end latency of less than 10ms, and LongGOP. The WinBex-Eseries/WinBex-Dseries has DVB-ASI, DS3 and IP Gateway for MPEG-2 TS format output and it supports the 1080i / 720p / 525i / 480i video formats, Dolby digital, Dolby Digital-E Pass Through audio formats, Closed Caption, HD-SD Down Converter, Web Based GUI, and Remote Update. It provides excellent broadcast video quality.

10bit Support
10ms Delay Support
MPEG-2/H.264
Chroma 4:2:0/4:2:2

WinBex-Exxxx WinBex-Dxxxx

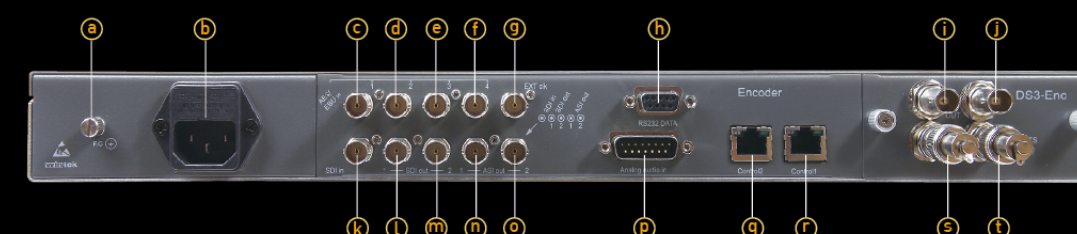
- MPEG-4 AVC/H.264, MPEG-2/H.262
- 4:2:2/4:2:0 10-bit/8-bit HD/SD Support
- H.264: High422 (10bit/8bit) High, Main Level: up to 4.1
- MPEG-2 : HD:MP@HL, 422P@HL SD: MP@ML, 422P@ML
- Multi Video Format/Frame Rate
- Delay: Normal/Low Delay/Hyper Low Delay
- CBR, Capped-VBR
- Dolby Digital 5.1CH/Dolby Digital-E Pass Through
- Dolby (AC3 1/0, AC3 2/0)
- HE-AAC/MPEG-2 AAC
- MPEG-1 Layer2
- Closed Caption (SMPTE333, SMPTE334) Service
- HD-SD Down Converter
- DS3 (FEC)
- IP Gateway/8-VSB/SMPTE310 (Option)
- EMS/SNMPv2/Web Based GUI
- Ethernet Interface/Remote Upgrade

Application



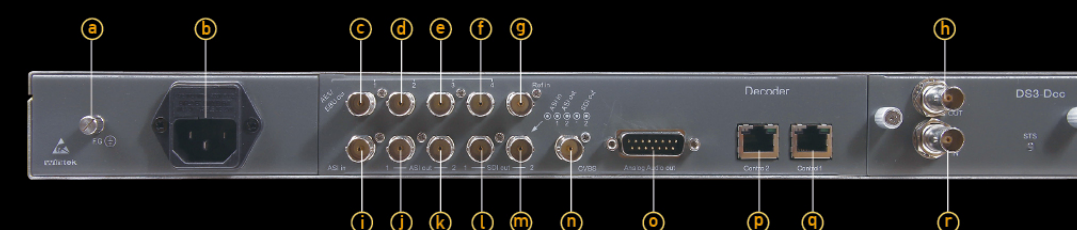
Rear Panel

Encoder [WinBex-Exxxx]



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|----------------|----------------|-------------|-------------------|
| a F.G | f AES/EBU In 4 | k SDI In | p Analog Audio In |
| b AC 100~240V | g EXT Clk | l SDI Out 1 | q Control 2 |
| c AES/EBU In 1 | h RS232 DATA | m SDI Out 2 | r Control 1 |
| d AES/EBU In 2 | i DS3 OUT | n ASI Out 1 | s DS3 IN |
| e AES/EBU In 3 | j DS3 OUT | o ASI Out 2 | t DS3 IN |

Decoder [WinBex-Dxxxx]



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|-----------------|-------------------|-------------------|-------------|
| a F.G | f AES/EBU Out 4 | k ASI Out 2 | p Control 2 |
| b AC 100~240V | g Ref In(GenLock) | l SDI Out 1 | q Control 1 |
| c AES/EBU Out 1 | h DS3 OUT | m SDI Out 2 | r DS3 IN |
| d AES/EBU Out 2 | i ASI In | n CVBS | |
| e AES/EBU Out 3 | j ASI Out 1 | o Analog Audio In | |