

HEVC
LOW DELAY



winBex-E52110 / winBex-D52110

winBex-E52110/winBex-D52110은 HEVC를 지원하는 Encoder/Decoder로써, Low delay를 지원하여 고화질의 Video를 최소의 Delay로 Service 합니다. 또한 다양한 Audio coding과 Closed Caption 및 해설 방송등의 부가 기능을 통해 최적의 Application을 제공합니다.

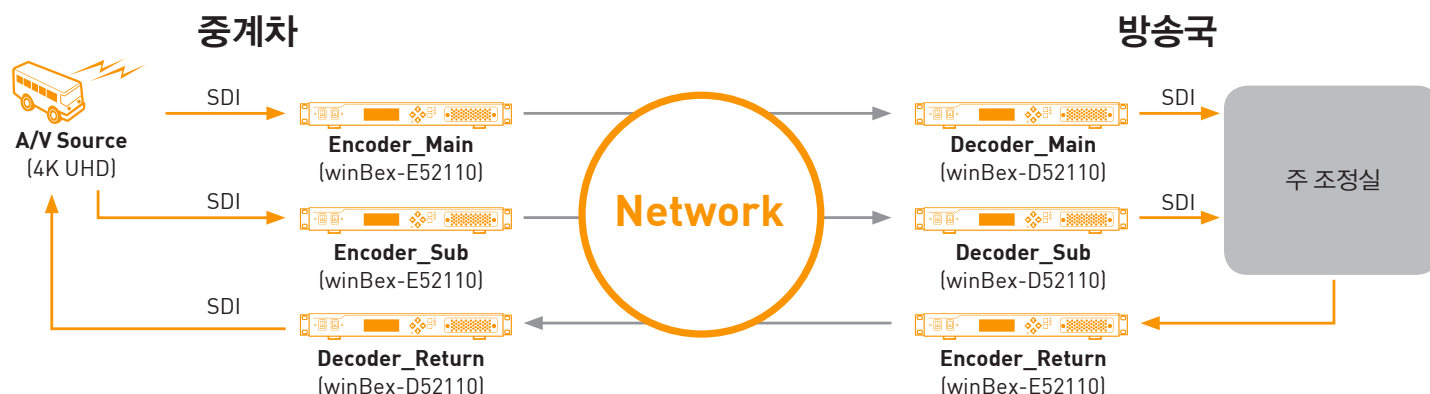
- HEVC Codec
- Low Delay 지원 (max 99ms)
- MP@L5.1, M10P@L5.1, 422P@L5.1 지원
- HDR(High Dynamic Range) 지원
- Dolby Digital 5.1ch 및 Dolby-E Pass through
- Dolby(AC3 1/0, AC3 2/0, AC3 5.1) 지원, AAC-LC 지원
- Closed Caption(SMPTE333, SMPTE334) Service
- DVB-ASI/DS3(FEC)/IP(FEC) Interface
- Dual Power 지원
- EMS 및 Web Based GUI를 통한 장치 제어 및 감시 기능
- Ethernet Interface를 통한 Remote Upgrade 기능



Main specifications

	Encoder	Decoder	Specification
Video	Input Format	Output Format	3G-SDI(ITU BT.709-2, BT.2020)
	Encoding Format	Decoding Format	ITU-T Rec.H.265, ISO/IEC 23008-2 HEVC
	GOP Structure		I-Only(LD), P-Only(LD), IP, IBBBP, IBBBBBBBP
	Chroma format		4:2:0 / 4:2:2
	Video Format		3840x2160p59
	Frame Rate		2160p : 59.94
	Profile@Level(HEVC)		MP@L5.1, M10P@L5.1, 422P@L5.1
	Video Rate		HEVC: 3~150 Mbps
	Latency	-	Low Delay P Only(LD): 99ms
	Dynamic Range		SDR / HLG / PQ
Audio	Input	Output	Embedded Audio : 16ch, AES/EBU : 8ch
	Encoding Format	Decoding Format	MPL2 Mono/Dual Mono/Joint Stereo/Stereo SMPTE302M 2/4/6/8ch AC3 1/0, 2/0, 3/0, 3/0L, 2/1, 2/1L, 3/1, 3/1L, 2/2, 2/2L, 3/2, 3/2L(5.1ch) AAC-LC Mono, D-Mono, Stereo, 2/1, 2/2, 3/0, 3/1, 3/2, 5.1ch, 6ch(6M), 6ch(3S) Pass Through(Dolby-E/Dolby Digital 5.1ch)
	Input Analog Audio	Output Analog Audio	4ch(LA/RA, RA/RB), Impedance: 600Ω or 20kΩ
	Output Stream Type	Input Stream Type	MPEG-2 TS(188/204/208 bytes)
System	Output Interface	Input Interface	DS3(FEC), DVB-ASI, IP(FEC)-Option
Control	Local Operation		Front Panel Navigation Key
	Remote Operation		EMS, Web Based GUI
Internal Test Signal			Video: Moving Color Bar, Audio Tone: 1KHz (-18dB/-20dB)
Dimension(WxHxD)			440mm x 44mm x 430mm (1-RU)
Weight			5.5kg
Operating Temperature			0℃ ~ +45℃
Power Consumption			Encoder ≤90Watt, 0.4[A] (@220VAC) Decoder ≤90Watt, 0.5[A] (@220VAC)
Power Source			AC 100 ~ 240V(Free Voltage)-Dual Power

Application



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