

AVC/H.264 and MPEG-2
HDTV/SDTV Encoder/Decoder

HVE9100S / HVD9100S

100msec
Super
Low Latency



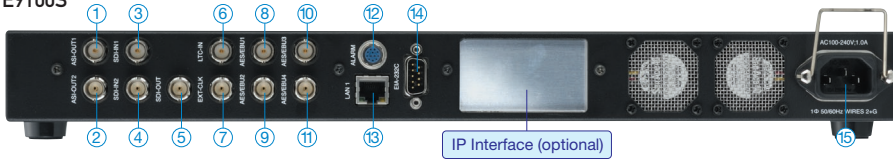
The industry's first AVC/H.264 HD Encoders and Decoders with 4:2:2 chroma, providing the highest quality from the cutting edge SARAENC/SARADEC LSI

The HVE9100S/HVD9100S series is compact, lightweight and supports a wide range of applications, including MPEG-2

- Superior quality and performance using NTT Electronics's cutting edge SARAENC/SARADEC LSI
- Supports MPEG-4 AVC/H.264 and MPEG-2 HDTV/SDTV
- Quick Boot-up
- Multiple video format compatibility including 1080i, 720p, 576i & 480i
- Latency Modes (800/600/300/100msec)
- Enhanced audio features including 8 channel audio I/O channel (16 channel support optional)
- Dolby Digital Encode (optional)
- Analog audio (optional)
- Built-in Ethernet Interface for IP Communications with FEC (optional)
- User Friendly Front Panel Operation
- Easier Network Maintenance with Built-In SNMP Functionality and Web based GUI
- High Level Security for Satellite Communications with BISS-1/E Functionality (optional)
- Ancillary Data (ARIB B22/B23, TIMECODE, Closed Caption) Transmission Support
- RoHS Compliant
- Multiple audio format support up to 4 x PES
- Adjustable Lip Sync

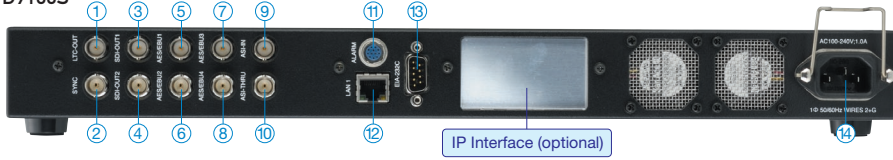
Rear Panel

HVE9100S



- ① ASI-OUT1
- ② ASI-OUT2
- ③ SDI-IN1
- ④ SDI-IN2
- ⑤ SDI-OUT
- ⑥ LTC-IN
- ⑦ EXT-CLK
- ⑧ AES / EBU1
- ⑨ AES / EBU2
- ⑩ AES / EBU3
- ⑪ AES / EBU4
- ⑫ ALARM
- ⑬ LAN 1 (control)
- ⑭ EIA-232C
- ⑮ AC100 - 240V

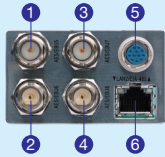
HVD9100S



- ① LTC-OUT
- ② SYNC
- ③ SDI-OUT1
- ④ SDI-OUT2
- ⑤ AES / EBU1
- ⑥ AES / EBU2
- ⑦ AES / EBU3
- ⑧ AES / EBU4
- ⑨ ASI-IN
- ⑩ ASI-THRU
- ⑪ ALARM
- ⑫ LAN 1 (control)
- ⑬ EIA-232C
- ⑭ AC100 - 240V

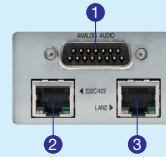
IP Interface (optional)

100BASE-T IP Board with 16ch Audio



- ① AES/EBU5
- ② AES/EBU6
- ③ AES/EBU7
- ④ AES/EBU8
- ⑤ EIA-485
- ⑥ LAN2

Giga-Ether IP Board with Analog Audio



- ① ANALOG AUDIO
- ② 232C/422
- ③ LAN2

Main Specifications

	Encoder	Decoder	Specification
Video	Input Format	Output Format	HD-SDI (SMPTE292M) SD-SDI (SMPTE259M)
	Encoding Format	Decoding Format	MPEG-4 AVC/H.264 MPEG-2/H.262
	Profile/Level		AVC/H.264: Profile: High422 (8bit), High, Main Level: 4.0/3.2/3.0
	Video Format		MPEG-2 Video: HD: MP@HL, 422P@HL SD: MP@ML, 422P@ML (optional) 1080i: 1920/1440 x 1080 1080p: 1920/1440 x 1080 (Decoder) 720p: 1280 x 720 576i: 720 x 576 480i: 720 x 480
	Frame Rate		1080i: 25/29.97/30 (SMPTE274M) 720p: 50/59.94/60 (SMPTE296M) 576i: 25 (ITU-R BT.656-4) 480i: 29.97 (SMPTE125M)
Audio	Input Format	Output Format	Embedded Audio: 8ch (SMPTE299M/272M) AES/EBU: 8ch, 16ch (optional), Analog audio (optional)
	Encoding Format	Decoding Format	MPEG-1 Layer II (1ch/2ch) MPEG-2 BC (1ch/2ch) Dolby Digital(1ch/2ch) (Encoder, optional) (Max. 4PES) MPEG-2 AAC (1ch/2ch/4ch/5.1ch/6ch) MPEG-4 AAC (2ch/5.1ch) (optional) MPEG-4 HE-AAC (2ch/5.1ch) (optional) SMPTE302M (2ch/4ch/6ch/8ch) (Max. 2PES, Up to 8ch, 16ch (optional))
	Ancillary Data		Data type TIMECODE, SMPTE334M, ARIB B22 / B23
System	Output Stream Type	Input Stream Type	MPEG-2 TS (188/204 byte)
	Output Interface	Input Interface	DVB-ASI, IP (optional)
	Max. Output Rate	Max. Input Rate	H.264: HDTV 160Mbps/SDTV 50Mbps MPEG-2: HDTV 160Mbps/SDTV 50Mbps
Internal Test Signal			Video: Color Bar Audio: 1kHz Sine wave
Control	Local Operation		Power ON/OFF, Front Control Key
	Remot Operation		SNMP, Web GUI
Dimensions			W432 x D460 x H44 (mm)
Weight			6kg
Power Source			AC 100 - 240V, 50Hz / 60Hz
Power Consumption			HVE9100S: 100W (Without option board: 60W) HVD9100S: 65W (Without option board: 50W)
RoHS Compliant			This product is RoHS compliant.



Caution

- In order to ensure correct and safe use, please be sure to read the User's Guide beforehand.
- Do not install in locations exposed to water, humidity, steam, dust, or mist. Doing so could cause fire, electric shock, or equipment failure.

- Features and specifications are subject to change without prior notice.
- When exporting our products or technologies, please comply with the Foreign Exchange and Foreign Trade Law.
- Dolby is a trademark of Dolby Laboratories.



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