

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

HVE9100S / HVD9100S

AVC / H.264
Chroma 4:2:2
Compliant



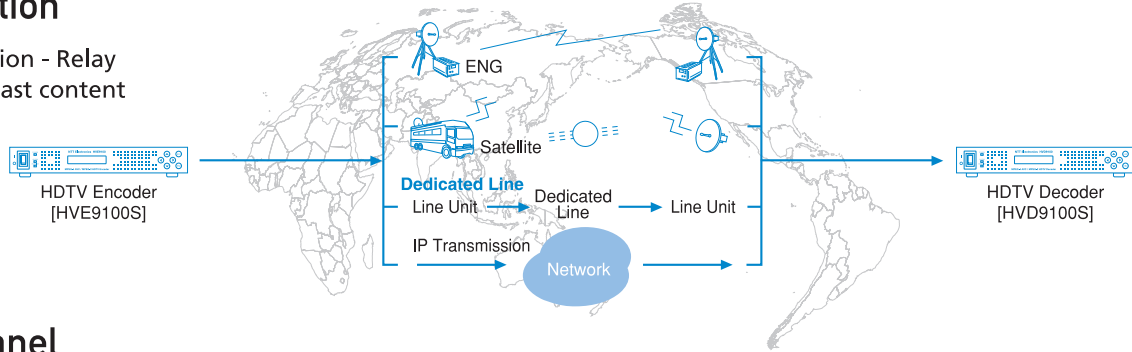
The industry's first AVC / H.264 HD Encoders and Decoders with 4:2:2 chroma, providing the highest quality from the cutting edge SARAENC / SARADEC LSI

The New 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
- Low Latency
- Enhanced audio features including 8 channel audio I / O channel (16 channel support optional)
- Dolby Digital (Encoder, 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, SMPTE334M) Transmission Support
- RoHS Compliant

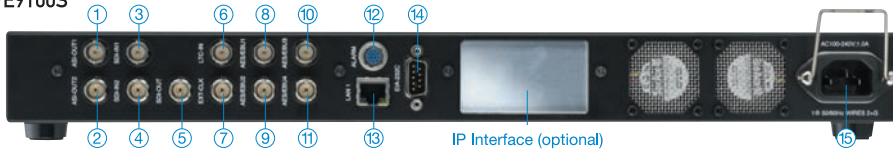
Application

Transmission - Relay
of broadcast content



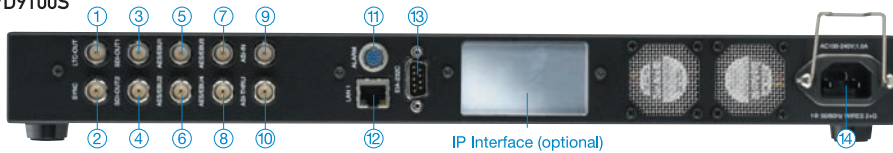
Rear Panel

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

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 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 |
| | Remort Operation | | SNMP, Web GUI |
| Dimensions | | | W432 x D460 x H44 (mm) |
| Weight (typical) | | | 6kg |
| Power Source | | | AC 100 - 240V, 50Hz / 60Hz |
| Power Consumption | | | HVE9100S: 100W (Without option board: 60W) HVD9100S: 65W (Without option board: 50W) |



Caution

In order to ensure correct and safe use, be sure to read the User's manual before use.

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 subject to change without notice for improvement.
- When exporting our products or technologies, you should comply with the "Foreign Exchange and Foreign Trade Law."
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