



SD Encoder

AD-1898 8-Ch MPEG-2/ MPEG-4 AVC SD Encoder

The AD-1898 is a latest MPEG-2/MPGE-4 AVC high efficiency SD encoder which can perform SD MPEG-2/MPEG-4 AVC compression encoding up to eight channels of analogue or digital A/V input signals simultaneously, and then output the signals through ASI and/or IP interface after multiplexing. This device can be used for A/V signal source encoding of a DTV network head-end system, and it also supports the WEB/SNMP management.

Features

- Up to eight channels of SD encoding in 1RU
- High picture quality in ultra low bit rate to reduce network overheads or costs
- Web browser GUI and SNMP interface for remote management and control
- Dual Ethernet output, Supporting Independent or 1+1 redundant configuration
- MPEG TS-over-IP(7 x 188 Byte) output, support MPTS/SPTS mode
- Support encoding rate range from 0.25Mbps to 5.5Mbps
- Multiple resolutions: PAL: 720 x 576, 704 x 576, 640 x 576, 544 x 576, 352 x 576@50Hz
NTSC: 720 x 480, 704 x 480, 640 x 480, 544 x 480, 352 x 480@60Hz
- Support VBR/CBR video encoding
- Support simple TS multiplex with auto-generated PSI/SI
- Low power consumption
- Front panel control and LCD display
- Auto-saving of user configurations for the recovery of previous working status
- Malfunction alarm display

WE IDENTIFY THE BEST
TECHNOLOGIES TO FIT YOUR
GOALS AND BUDGET.
WE THEN ENSURE THOSE
TECHNOLOGIES CONTINUE TO
WORK WELL INTO THE FUTURE.

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Technical Specifications

ASI TS Multiplexing Output

Qty of ASI Output: 2 x ASI
Output Mode: Redundant output
Connector: BNC, 75Ω
TS Packet Length: 188 Bytes
TS Output Bit Rate: 2 to 60Mbps
ASI Processing: PAT, PMT, NIT Insertion

Video Encoding

Encoding Format: MPEG-2: MP@ML
MPEG-4 AVC: MP@L3
Resolution & Frame Rate: 480i@30fps,
576i@25fps
Aspect Ratio: 4:3 or 16:9
Video Encoding Rate:
MPEG-2: 0.5 to 5.5Mbps per program
MPEG-4 AVC: 0.25 to 5.5Mbps per program
Encoding Rate Mode: VBR, CBR

Audio Encoding

Encoding Standards: MPEG-1 Layer 2
Optional: LC-AAC/HE-AAC/HE-AAC v2
Operation Mode: Stereo or Mono
Supported Sample Rate: 32kHz, 44.1kHz, 48kHz
Audio Encoding Rate: MPEG-1 Layer 2/LC-AAC:
192kbps~384 kbps
HE-AACv1: 96kbps~192kbps
HE-AACv2: 96kbps

Network Management

Interface: 1 x 10/100 Base-T Ethernet
Connector: RJ-45
Management: Web and SNMP management

Analog Video/Audio Input Standard

Composite Video: 8 x CVBS
BNC female, 75Ω
Unbalanced Audio: 8 x Stereo pairs (R&L)
BNC female, 600Ω
Stereo or Mono mode

Digital Video/Audio Input(Optional)

Serial Digital Interface: 8 x SD-SDI
(BNC female, 75Ω) SMPTE 259M
Audio Interface: Embedded in SD-SDI

ASI Transport Stream Input*

Qty of ASI Input: 2 x ASI
Connector: BNC female, 75Ω
TS Packet Length: 188 or 204 Bytes
**The function available in hardware option with
SDI inputs only.*

MPEG TS-Over-IP Output

Numbers of IP Output: 2 x 10/100 Base-T
Ethernet
Output Mode: Redundant output
TS Format: 7 x 188Byte of MPEG TS-over-
UDP
TS Output Mode: MPTS, SPTS
Addressing: Unicast or Multicast
Connector: RJ-45

