



## SD Encoder

### Standard Definition Encoder AD-1838

AD-1838 is latest high cost-effective and high density MPEG-2 SD encoder which can perform MPEG-2 compression encoding for up to eight channels of analogue composite video and stereo pairs signals simultaneously, and then output the signal through ASI and IP interfaces after multiplexing. It supports 1+1 redundant output via dual ASI and (or) TS-over-IP interfaces, and with Web browser and SNMP management, these features can make it more reliable, flexible and much more ease to deployment in traditional or even IP-based DTV head-end system.

#### Features

- Up to eight channels of SD encoding in 1RU;
- High picture quality in ultra low bit rate to reduce network overheads;
- Web browser and SNMP management for local and 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 video encoding rate range 1Mbps to 7Mbps
- Multiple resolutions: PAL: 720 x 576, 704 x 576, 640 x 576, 544 x 576, 352 x 576@50Hz NTSC: 720x480, 704x480, 640x480, 544x480, 352x480@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

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## Technical Specifications

### Analog Video/Audio Input

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

### ASI Transport Stream Input

Numbers of ASI Input: 2 x ASI  
Connector: BNC female, 75Ω  
TS Packet Length: 188 or 204 Bytes

### ASI TS Multiplexing Output

Numbers of ASI Output: 2 x ASI  
Output Mode: Redundant output  
Connector: BNC, 75Ω  
TS Packet Length: 188 Bytes  
PSI Processing: PAT, PMT, NIT Insertion

### 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  
Network Protocol: UDP, IGMP  
Connector: RJ-45

### Video Encoding

Encoding Format: MPEG-2: MP@ML  
Resolution & Frame Rate: 480i@30fps,  
576i@25fps  
Aspect Ratio: 4:3 or 16:9  
Video Encoding Rate: 1 to 7Mbps per program  
Encoding Rate Mode: VBR, CBR

### Audio Encoding

Encoding Format: MPEG-1 Layer 2  
Operation Mode: Stereo or Mono  
Supported Sample Rate: 32kHz, 44.1kHz, 48kHz  
Audio Encoding Rate: 64 to 384 kbps

### Network Management

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

