

# GN-1838

## 8-Ch MPEG-2 SD Encoder



### Product Overview

GN-1838 is GOSPELL's latest highly 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 make it more reliable, flexible and much more easy to deploy, in conventional or even IP-based DTV head-end systems.

### Main 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
- Supports video encoding rate range from 1Mbps to 7Mbps
- 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
- Supports VBR/CBR video encoding
- Supports simple TS multiplex with auto-generated PSI/SI
- Low power consumption
- Front panel control and LCD display
- Auto-saving of user configuration for the recovery of previous working status
- Malfunction alarm display

## 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
Video Encoding Rate	1 to 7Mbps per program

Encoding Rate Mode	VBR, CBR
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### Audio Encoding

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

### Network Management

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

### Miscellaneous

Front Panel	3.5" LCD with 6 x Control Button for 2-lines information display and settings
	3 x Dual color LED, for status indications of power, working and Alarm
Rear Panel	1 x Power Receptacle(AC Input)
	1 x Power switch
	1 x Serial Console Port(via RJ-45 connector)

### Power Supply

Input Voltage	90 - 250 VAC, 50/60Hz
Power Consumption	50W (Typ.)

### Environmental

Operating Temperature	0°C to 45°C(32°F to 113°F)
Storage Temperature	-20 to 80°C(-4°F to 176°F)
Operating Humidity	90%, non-condensing

### Mechanical

Product Dimensions (W x H x D)	483mm x 44.5mm x 400mm 19" x 1.73" (1 RU) x 15.8"
Product Weight	5Kg (11 lbs)

## Rear Panel View



## Ordering Information

### Hardware Options

Hardware Options	Descriptions
GN-1838	8-Ch SD Encoder with MPGE-2/MPEG-4 AVC video encoding and MPEG-1 layer 2 audio encoding 8 x CVBS input, 8 x Unbalanced Stereo Pairs input, 2 x ASI input, 2 x ASI output, 2 x 10/100Base-T output, 1 x 10/100Base-T(NM)

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## For More Information

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