



FEATURES | BENEFITS

- 1080P 50 and 1080P 59.94 fps Encoding (3G) (4:2:0 Only)*
- AVC 4:2:0 and 4:2:2 Video Encoding*
- 1, 2, 3 Frame End-to-End Latency*
- 3G Copper and Fiber SFP Video Interfaces
- Automatic or Fixed SD, HD or 3G (Level A or Level B) Detection
- Sixteen (16) Channels of Native Surround Audio Encoding*
- MP1L2*, AAC*, and Dolby Digital Plus* stereo and 5.1 Audio Encoding
- Multiple Mode IP Transport including RTMP and Zixi*

APPLICATIONS

- Tier One Dedicated ASI, IP or Satellite Contribution
- UHD Contribution, At Home Production
- High Efficiency Trunking at 3, 2, 1 Frame Delay with Frame Accurate Sync
- Public IP Transport

Adtec's EN-200 contribution class encoder supports the most demanding video applications with super low delay, AVC 4:2:2 and 4:2:0 chroma encoding.

The lightweight EN-200 offers premium features and exceeds requirements in its 1 RU chassis, including redundant AC power supplies, enhanced control and monitoring via front-panel, browser and SNMP. Video support includes SD, 2D-HD, and 4K (Ultra HD) synchronous AVC encoding. The EN-200 provides up to sixteen (16) channels of audio, robust VBI support and ease of use. In addition to encoding MPEG 1 audio, the EN-200 adds support for Dolby Digital Plus, ACC-LC and HE-AAC (v1/v2) mixed mode audio encoding supporting stereo (2.0) and multi-channel surround (5.1) modes.

With the ability to encode and concurrently transport services via ASI, IP and RF, the EN-200 offer flexibility and reliability. The DVBS/S2/S2X modulator supports IF and L-band with 10Mhz insertion. Modes range from QPSK up to 32APSK. With low delay and frame accurate sync, Adtec's EN-200 is a key part in a complete UHD solution and at home production applications.



*Optional licenses required

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Listed features are dependent upon installed hardware and software
options, features are subject to change.

EN-200 EN-200 Low Latency Contribution Encoder

VIDEO ENCODER PROFILES: *

MPEG 4 HD/SD Profiles: MP Level 3.2, Hi422P (Level 3.2), Hi422P (Level 4.1), HiP
 Supported Resolutions: 480i59.94, 576i50
 720p50, 720p59.94, 1080i50, 1080i59.94
 1080i50, 1080i59.94

VIDEO INPUT:

Composite:

Interface: SD Composite Analog (CVBS)
 Composite NTSC and PAL

Connector:

2x BNC (75 Ohm)

SDI:

SD-SDI (SMPTE 259M - 270 Mbits) with embedded audio per SMPTE 272M
 HD-SDI (SMPTE 292M - 1.485 Gbits) with embedded audio per SMPTE 299M
 3G-SDI

Interface:

HD/SD-SDI Auto frame rate and resolution detection

Connector:

1x BNC (75 Ohm), 1x 3G BNC (75 Ohm)

Optical:

SFP Cage for Video and Audio input module, support for SD-SDI, HD-SDI, and 3G-SDI and embedded audio.

AUDIO PROCESSING PROFILES: *

Supported Audio: Up to 8 pairs (16 channels) of audio
 MPEG 1 Layer 2, AAC-LC (2.0/5.1), AAC-HE v1/v2 and AAC-6.0 surround encode
 Dolby Digital AC-3 stereo (Up to 4 stereo pairs)

Audio Input:

Interface: SDI, AES, Analog

Connector:

8x BNC (75 Ohm) and 1x DB9

CONDITIONAL ACCESS: BISS 0/1/E standard

OUTPUT:

All outputs can operate concurrently (ASI, IP and RF)

ASI Output

Connector: 3x BNC (75 Ohm)
 IS013818-1 MPEG 2 Transport Stream per EN 50083-9:1997 (188 byte only)

Transport Over IP (TSoIP) Output

Connector: 2x RJ45 10/100/1000 GigE
 IS013818-1 MPEG 2 TS per EN 50083-9:1997
 UDP, RTP, and SMPTE 2022-7 (COP3 FEC)
 MPTS or SPTS user definable
 RTMP*
 Zixi Feeder*

VBI / VANC PROCESSING:

Waveform / Ancillary support for:

AFD, Closed Captions, OP47 Teletext, VITC, and WSS
 CEA 608 -> 708 Up-conversion

IF AND L-BAND MODULATOR - Optional: (EN-200/IF/LB/10M Model)

DVB-S/S2/S2X Capable Modulator supporting 5%-35% rolloff.

Connectors:

4X BNC (50Ohm)

Modulation Modes:

QPSK / 8PSK / 16APSK / 32APSK

LB Output Frequency Range:

950 MHz to 2150 MHz

IF Output Frequency Range:

50 MHz to 180 MHz

Interface Rate:

50 kbit/s- 150 Mb/s

(modcod & interface dependent)

Baudrate range:

0.05 - 54 Mbaud. (modcod dependent)

Clean Channel Technology - Roll-off factors:

5%, 10%, 15%, 20%, 25%, 35%
 for all modulations

RF Carrier ID compliant

* IF and L-Band outputs are not active simultaneously

PHYSICAL:

Operating Temperature: -20 to +50 °C

Power Supply (nominal): 70 - 240 VAC

Weight: 9 lbs, base version

Measurements:

(H X W X D) 1.75" X 19" X 18"

MANAGEMENT:

Front Panel controls

Browser-based Web Interface

SNMP

SNMP v2c available for NMS integration

* Software keys are required to unlock full hardware support. Please contact your sales person for more info.

