

Multi-Format AVC Encoder

ME2000 Series



FRONT PANEL DETAIL



BACK PANEL DETAIL

OVERVIEW

The Modulus Video ME2000 is a multi-format platform for delivering real-time MPEG-4 AVC HD or SD services at the lowest bit rates

This second generation platform offers flexibility, value and its advanced multi-pass encoding system delivers exceptional video quality. The highly optimized custom algorithms from Modulus include support for statistical multiplexing over an IP infrastructure plus Constrained Fidelity CBR, a capped VBR mode for IPTV applications. Other advanced features are digital program insertion triggers and a low resolution proxy output stream for program guide or monitoring applications.

This Linux based platform is available with an ASI output option and is ideal for both IPTV and satellite applications.

KEY ADVANTAGES

Real-time HD or SD AVC

Exceptional video quality

Low power 1RU chassis

Low resolution proxy

CBR, CF-CBR™

StatmuxIP™ option

Ad-insertion support

Quad IP outputs

Web browser interface

SNMP interface

SEE REVERSE SIDE FOR SPECIFICATIONS

ABOUT MODULUS VIDEO

Modulus Video's MPEG-4 AVC video encoders deliver the efficient use of bandwidth and outstanding standard and high definition television services behind today's most compelling IPTV operations.



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FOR MORE INFORMATION, CONTACT

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□ MPEG-4 AVC ENCODER FEATURES

Multi-pass encoding

Motion estimation:

- Supports P, B & ref B pictures
- 16x16, 8x8 Block sizes
- 1/4 Pixel motion estimation
- Field and frame support
- Weighted prediction
- Intra 4/16 estimation modes
- Selectable GOP structure

Rate control:

- CBR
- CF-CBR (capped VBR)*
- VBR - StatmuxIP option*

CABAC Entropy coding

De-blocking filter

MCTF SD Noise reduction*

Encoding Latency - 2.5 seconds

□ MPEG-4 AVC VIDEO PROCESSING

HD - Main Profile@ Level 4

SD - Main Profile@ Level 3

Output formats:

- 1080i x 1920/1440/1280
- 720p x 1280/960
- 525i x 720*/704*/544/528/480/352
- 625i x 720*/704*/544/528/480/352

Low resolution proxy (PIP)*:

- 200-500 Kbps
- Resolution 128x96

□ AUDIO PROCESSING

MPEG-1 LII (4 stereo pairs)

AAC-HE (v2) (4 stereo pairs)*

Dolby Digital 2.0 (optional)

Dolby Digital Pass Through

□ COMPRESSED STREAM OUTPUT

MPEG-2 TS over UDP/IP

Ethernet:

- 4 Configurable ports
- 3 x GigE
- 1 x 10/100
- Connectors; RJ45

IP Output:

- Unicast or Multicast
- Proxy on separate SPTS

Ad insertion*:

- SCTE 35 splice points
- SCTE 104 input

Optional ASI output

□ DIGITAL VIDEO INPUT

HD-SDI per SMPTE-292M

SD-SDI per SMPTE-259M

Input formats and frame rates:

- 1080i @ 30/29.97/25
- 720p @ 60/59.94/50
- 525i @ 29.97
- 625i @ 25

□ DIGITAL AUDIO INPUT

Embedded audio per SMPTE-272/299

Dual 75Ω BNC AES3 Digital audio

□ ANCILLARY SIGNAL SUPPORT

VANC EIA708CC (HD)

EIA608CC and XDS (SD)

Teletext (625 SD)

□ PLATFORM CONTROL & STATUS

HTTP Browser interface

SNMPv2 for Integrated facility management

LINUX Operating system

□ PHYSICAL

Width: 18.9" (480mm)

Depth: 15.5" (394mm)

Height: 1RU, 1.75" (50mm)

Weight: 14lb (6.4KG)

Power: 115-230V auto sensing

Power consumption: 75 Watts

Cooling airflow: front to rear

Temperature: to 40C

□ COMPLIANCE & SAFETY

FCC, TUV, UL, RoHS

□ ORDERING

Platforms:

- ME2600 - HD and SD
- ME2600A - HD and SD & ASI out
- ME2100 - SD with HD option
- ME2100A - SD with HD option & ASI out
- ME2020 - SD
- ME2020A - SD & ASI out
- ME2011 - Entry level SD
- ME2011A - Entry level SD & ASI out

Software options:

- ME2000 - DD2: Dolby Digital 2.0 (2 pairs)
- ME2020 - VPP: MCTF for ME2020
- ME2100 - HDU: HD upgrade
- ME2000 - SDVBR: StatmuxIP
- ME2000 - HDVBR: StatmuxIP

* Features not available on ME2011



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