



ASSIC EM-ATSC2

MPEG-2 HD and SD Encoder with ATSC
8VSB modulator.

Fill your ATSC Digital Television needs from MPEG-2 encoding your analog or digital video sources up to digital HD and SD ATSC TV Modulation.

ATSC integrated 8VSB modulator makes possible to directly connect a regular VHF-UHF band power amplifier for Terrestrial Broadcasting or connect it to your TV cable distribution system.

Included software for content capture, storage, processing, queuing and scheduling to easy handle TV program and PSIP-data content.

Moreover provides management functionality for PSIP info packets, as well as utilities for Transport Stream packet analysis editing and testing. Provides open functionality for custom data content creation over Transport Stream ATSC A/90.

Upgradeable Hardware and Software protects your Investment, this equipment provides the highest versatility to grow in input/output formats

Inputs included

SMPTE310, USB, 100BaseT, NTSC/PAL, DVD, CD or storage media.

Inputs Optional

FireWire, Composite, ASI, ATSC 8VSB decoder, DVB decoder, QAM decoder

Outputs Included

SMPTE310, ATSC-8VSB modulated, or storage media

Outputs Optional

IP streaming, DVB-C/USA-QAM, DVBT/H, DVB-S/S2, ISDB-T, T-DMB, ASI.

Software upgradeable CODECS and user front end applications.

Video input

Analog composite video
(PAL/NTSC) 10bit sampling
SNR > 60dB

Luminance, Color hue, Saturation
controls

Digital Video File processor from
AVI Mpeg, H323, WMA and TS
files

SMPTE 310M – 1998 compliant for
19.4 Mb/s rate video input

Standard 10/100 BT TCP/IP
stream

Firewire Port with Win XP

Audio input

2 stereo pairs input via analog
Digital audio file processor

Outputs

SMPTE 310M – 1998 compliant for
19.4 Mb/s rate

Standard 10/100 BT TCP/IP
stream

75 ohm coax ATSC 8VSB
modulator RF Output Frequency:
55-860 MHz,
956-1750 MHz

Video Encoder

MPEG-2 19.4 Mb/s
1920 x 1080 or 1280 x 720, though
856 x 480 16:9 DVD-quality or 4:3
(640 x 480) SD

Audio Encoder

2 x stereo audio channel
processing

**MPEG-1 Layer II audio encoding
standard**

Encoding rates from 32 kbps to
384 kbps

Dolby Digital® (AC-3)

Encoding rates from 56 kbps to
640 kbps

Dolby Digital® (AC-3) 1 – 5.1
channel, Dolby® E,
PCM, WAV, MP3 and DTS.

Modulator

ATSC 8VSB modulator RF Output
Frequency: 55-860 MHz,
956-1750 MHz on 75 ohm coax

Control

Full remote control over TCP/IP
Full control via local KB and VGA
Global remote management
through web-based interface

Physical and Power

Dimensions (W x D x H)

442.5 x 545 x 44.5mm (17.5" x
20.7" x 1RU)

Approximate Weight

10.5kg

Power Input

100 - 120 VAC or 220 - 240 VAC
wide

Consumption

100W no options, 250W maximum,
depending on the option cards
selected

Environmental Conditions

Operating Temperature

-10°C to 50°C (14°F to 122°F)

Operating Humidity

<95% non-condensing

TS analysis capabilities

PSIP, data ATSCA/90 A/97
Advanced Pre-processing
Optional Movie maker software

Features

- 1) SD and HD Transport Stream
- 2) Multiprogram
- 3) Input/Output Configuration
includes Play Order control
for file sequencing
applications
- 4) Thumbnail monitor for inline
monitoring
- 5) Transport Stream Analyzer
displays PID values and Program
structure
- 6) Time/Size limits for recording or
playback
 - Filter out specific PIDS
 - Playback specified PIDS by
time/MB
 - Software based schedule
controller
 - Analyzes a transport stream file
to determine stream rate and
PIDs/Programs
 - Selects and filters programs
from
multi-program transport streams
with either 188 or 204 byte
packets
 - Fast Switching allows for
quicker
looping of sequentially named
Configurations
transcode MPEG2, AVI, and WMV
video files to an ATSC MPEG-2
Transport Stream.

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