

Multi Channel Standard Definition Encoder



Quad SD MPEG-2 / MPEG- 4 Encoder for IPTV and Distribution

The ATEME Kyrion[™] AS2204 is a multi-channel MPEG-2 / MPEG-4 encoder enabling IPTV and Broadcast applications. With support for four channels in a single 19" rack unit, the Kyrion AS2204 allows video service operators to deploy hundreds of SD channels within a limited footprint.

Applying the latest ATEME compression technology, the Kyrion AS2204 produces bandwidth efficient SD streams delivering greater customer reach in IPTV networks and optimizing your Bandwidth in Broadcast making the most of your Network investments.

Kyrion AS2204 is a fully programmable hardware design offering a complete set of MPEG-4/H.264 tools including full support for interlaced video (MBAFF). The Kyrion encoder benefits from ATEME's MPEG-4 encoding expertise by enabling state-of-the-art compression algorithms in real-time.

KEY FEATURES

- 4 SD channels MPEG-2 / MPEG-4 in 1 RU
- PiP or low resolution service for each channel.
- Extensive DVB subtitles , Close-Caption, Teletext support
- Fully SNMP controllable
- Video confidence monitoring on front panel

BENEFITS

- Compact solution for lower video head end footprint and lower power consumption
- Pristine Video Quality at low bitrates
- Integrated with DataMiner NMS solution for redundancy

Eateme Keep content looking great wherever it's played



VIDEO SPECIFICATIONS

Video Compression 4 independent SD channels MPEG-4 AVC/H.264 - Main and High Profile up to Level 3. Options and License: - Second stream for low resolution channel or Picture in

Picture on each channel.

Video formats

SD: 576i and 480i

Encoding bit rate SD: 0.5 to 10 Mbps per channel.

Resolutions 576i x 720, 576, 544, 480 and 352 pixels 480i x 720, 640, 576, 544, 480 and 352 pixels

- Frame rates 576i @ 25 Hz, 480i @ 29.97 and 30 Hz
- Picture in Picture or Low resolution Resolutions: 288x352, 240x352, 144x176, 120x176, 96x128, 96x96.

Video Processing

Fixed or adaptive configuration Automatic I frame insertion Automatic scene cut detection Multi-pass look-ahead CBR and Capped VBR Linear and nonlinear spatial filtering* Inverse telecine (3:2 pull-down) Logo insertion

Ancillary data and signaling Closed captioning compliant with EIA-608, SMPTE 334 and standard ATSC. DVB Teletext/CEEFAX Vchip parental control VITC Time code Wide Screen Signaling (WSS) Active Format Description (AFD)

Digital Program Insertion (DPI)* SCTE35 insertion via SCTE104 triggers or GPIO

Standard: MPEG-2 TS / DVB / ATSC/ SBTVD

AUDIO SPECIFICATIONS

Number of Channels Native Encoding up to 8 stereo pairs.

Compression formats MPEG-1 Layer II MPEG-2/MPEG-4 AAC-LC (Optional) HEV1-AAC, HEV2-AAC (optional) Dolby Digital E, AC.3/EAC.3 pass-through.

Sampling frequency: 32, 44.1, 48 KHz

OUTPUT TRANSPORT LAYER SPECIFICATIONS

MPEG-2 Transport Stream over UDP/IP or RTP/UDP/IP Unicast / multicast streaming INPUTS / OUTPUTS INTERFACES

Video Input

4 SD-SDI (SMPTE 259M-C)

Audio Input:

Embedded in SD-SDI (up to 8 stereo channel pairs SDI input)

Options:

- AES-EBU input up to 8 stereo pairs.

Output Interfaces

- 4 Gigabit Ethernet ports (100/1000 BaseT connectors): 2 ports for service streaming, 2 port out-of-band for management.

Discreet I/O*

Alarms and synchronization triggered on GPIO DB-9 connector.

CONFIGURATION AND MANAGEMENT

- DataMiner Networks Management System
- SNMP (MIB v2c) with remote SNMP supervisor
- Embedded web-server configuration

- Front panel with live video "On screen Display" to monitor the 4 video input.

PHYSICAL

Dimensions 19" 1-RU (482x44,5x 508 mm /19"x1.75"x 20") Weight 7.5 kg/16.5 lbs

ENVIRONMENTAL

- Cooling air flow from right side to left side
- Operating temperature 5 to 40 °C / +41 ° to +104 °F
- Storage temperature -20 to 70 °C / +32° to +158 °F
- Operating humidity 5 to 90% (non condensing)
- Input voltage range 100-240 VAC, 50/60 Hz
- Typical consumption 80 W

CERTIFICATIONS

ROHS

CE and FCC class B Certifications, ECM Compliancy:

- EN 55022: 2006,
- EN 55024: 1998 / A1 : 2001 / A2 : 2003,
- FCC PART 15 Class B: 2006,
- EN 61000-3-2: 2000 / A2 : 2005,
- EN 61000-3-3: 1995 / A1 : 2001 / A2 : 2005, Safety:
- EN/UL/CA 60950-1

PRODUCT OPTIONAL UPGRADES

Dolby Digital/Dolby Digital Plus Encoders Picture-In-Picture *

*Contact Factory for availability

