

HIGH DEFINITION ENCODER MPEG-4 AVC/H.264 HD



Optibase MGW HD enables live encoding of high definition H.264. Either as a stand alone platform or integrated with Optibase's MGW IPTV systems, the MGW HD features exceptional video quality utilizing the low bandwidth of H.264.

As IPTV services progress, operators are required to evaluate new content offering strategies in order to differentiate themselves from traditional TV broadcasting. One of the most attractive offering to subscribers is high definition (HD) content which enhances the TV viewing experience. Adding HD channels into existing IPTV deployments becomes easy with Optibase MGW HD.

Furthermore, operators need to find new ways to increase IPTV uptake and maximize their revenue sources. Optibase MGW HD top quality HD video enables service operators to maximize their revenue per stream by offering their subscribers with either an HDTV premium package or a bundled package with Standard Definition channels.

Main Benefits

- High quality HD content in minimal bit rate
- Increased compression efficiency, allows operators to increase revenue per channel
- Seamless integration into existing deployments

Main Features

- H.264 video compression standard
- Automatic input format detection and configuration
- Multiple HD video resolutions and various audio formats
- Web-based HTTP and SNMP management application

MGW HD

Technical Specification

Video Specification

Input Channel

- 1 HD channel HD-SDI (SMPTE292M)

Compression Standard

- MPEG-4 AVC/H.264 main and high profile up to level 4
- Video encoding @4 to 20 Mbps, optimize @6 Mbps

Supported AVC Tools

- Supported AVC tools interlaced (MBAFF) and progressive
- CABAC/CAVLC entropy coding
- I, P and B frames with multiple references
- All intra prediction mode
- Weighted prediction
- In-loop deblocking filter (applied over the whole frame)

GOP Structure

- Fixed or adaptive configuration
- Automatic I frame insertion/scene detection

Video Resolution

- Resolution:
- 1080i x 1920, 1440, 1280 and 960 pixels
 - 720P x 1280, 960 and 640 pixels
- Frame rate:
- 1080i@25, 29.97 and 30 Hz
 - 720P@50, 59.94 and 60 Hz

Additional Features

- Closed captioning extraction from VBI*
- Picture in Picture*

*Check for availability

Audio Specification

Input Channel

- Embedded in SDI, Up to 2 stereo pairs or one 5.1 multi-channel pass through

Compression Standards

- MPEG-1 Layer 2
- MPEG-4 AAC-LC, AAC-HE/V1
- Dolby Digital (AC3) Pass-through only
- Sampling frequency 48 KHz

Compressed Output Bitrate

- MPEG-1 Layer 2 - 128 to 384 Kbps (stereo)
- MPEG-4 AAC - 32 to 384 Kbps (stereo)
- Dolby Digital (AC3) - Pass-through (as input)

Output

Transport Layer Specification

- MPEG-2 Transport stream over UDP/IP
- Multicast streaming

Output Interfaces (Gigabit ports)

- 1 dedicated to service streaming
- 1 out-of-band, dedicated to management

Management

- SNMP (v2) with remote SNMP supervisor
- Embedded web-server configuration
- N+K supported by Cluster Manager

Physical

- Dimensions: 19" 1RU (19" x 1.75" x 12")
- Weight: 7.5Kg/16.5Lbs

Electrical

- Input power: 90-240V
- Max power consumption: 85W

Corporate Headquarters

7 Shenkar Street
Herzliya 46120, Israel
Tel: +972-9-970-9288
Fax: +972-9-958-6099

North America Headquarters

880 Maude Ave.
Mountain View
CA 94043, USA
Tel: +1-800-451-5101
+1-650-230-2400
Fax: +1-650-691-9998

info@optibase.com
www.optibase.com

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