

MGW Decoder

Multi-Channel IP Stream Decoder



MGW Decoder is a multi-channel IP decoder for standard definition MPEG-2 and MPEG-4 H.264 streams.

MGW Decoder is the perfect solution for taking IP content into local legacy RF cable systems and into IPTV encoders for the purpose of re-encoding to other formats or lower bit rates. Use the dense, 8-channel, rack-mountable platform to process your video sources while content providers migrate from MPEG-2 to MPEG-4 H.264 content.

With the fast adoption of MPEG-4 H.264, content providers are starting to transition MPEG-2 uplink facilities to the new, highly efficient compression format. The use of H.264 IP streams for content delivery over DVB/ASI satellite mediums as well as fiber pipes allows content providers, TV networks and dedicated satellite services such as the GBS network to reduce bandwidth costs and serve more content in the existing bandwidth.

The migration to newer format forces cable and IPTV head-ends, corporate, military bases and government facilities to replace their existing infra-structure with newer receivers and/or decoders that support MPEG-4 H.264 compression. The complexity of H.264 and the numerous variations of encoders in the market require a mature, reliable decoding solution that will offer density and attractive cost per channel.

Optibase MGW Decoder is the optimal solution that combines advanced decoding in a modular, dense design allowing IPTV operators to easily support the transition to H.264 IP content.

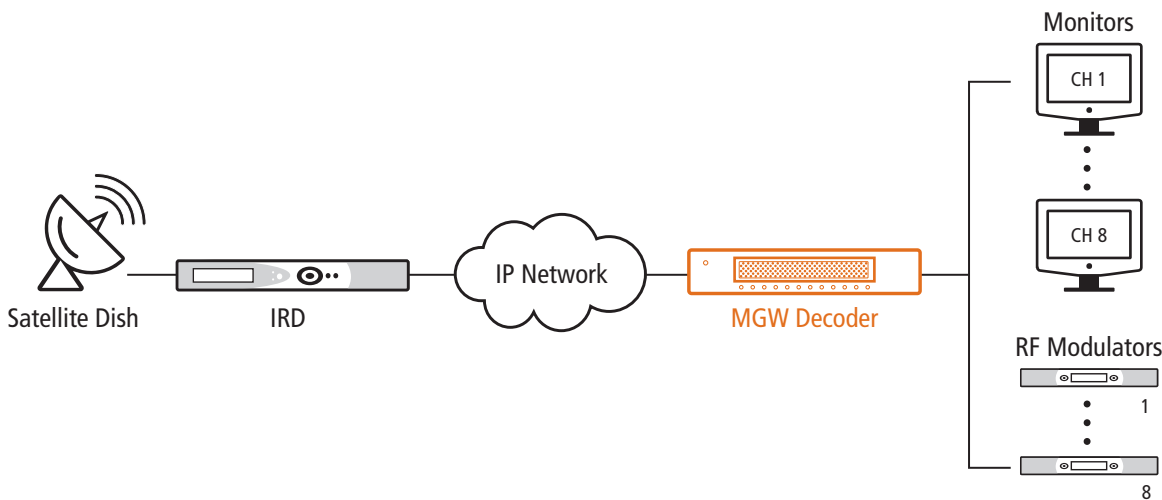
Benefits

- Multi-channel dense 2-RU platform
- Hardware-based decoding engine
- Remote management
- Multi-format: MPEG-2, MPEG-4 H.264
- Auto start mode for fast service recovery
- Ancillary data pass-through
- Closed-Captioning support (608/708)

Applications

- Feed RF/QAM cable TV systems with IP H.264
- Feed GBS MPEG-2/4 IP streams into local encoders
- Re-encode IP content to change format/data rate
- Deliver IP video from the network to monitor walls
- Decode IP video from the network to video switchers
- Monitor your multicast streams on TV/LCD monitors

Flow Diagram



Technical Specifications

Supported Video Formats:

- MPEG-4 H.264 MP@L3 up to 3.0Mbps
- MPEG-4 H.264 BP@L2 up to 2.0Mbps
- MPEG-2 MP@ML up to 12Mbps
- MPEG-1 up to 2Mbps
- QCIF - FD-1 resolutions
- 1-30 frames per second
- PAL and NTSC color systems
- 4:3 and 16:9 formats
- UDP Multicast and Unicast

Supported Audio Formats:

- MPEG-1 L2
- AAC, AAC-LC, AAC+

Input Interfaces:

- 1 x 10/100 Ethernet Copper (dedicated for IP streams input)
- 1 x 10/100 Ethernet Copper (dedicated for management)

Output Interfaces:

- 8 x BNC composite video
- 8 x BNC stereo audio pairs (left+right)

Physical:

- Width: 19"
- Height: 2-RU
- Depth: 25"

Management:

- Remote management application (over IP)
- Save/Load platform configurations
- Import/Export platform configurations

Electrical:

- Input Power: 90- 240VAC
- Integrated Power Supply
- Max Power Consumption 100W

Compliance:

- EMC standards: 2004/108/EEC
- Safety standards: 2006/95/EC
- FCC standards: FCC Part 15 Subpart B Class A