



MGW Premium Decoder

Portable, Rugged IPTV Decoder for HD/SD Video Streams



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MGW Micro Premium Decoder is a high-performance IP decoding appliance for standard definition and high definition MPEG-2 and MPEG-4 H.264 streams. The MGW Micro Premium Decoder features a flexible selection of output interfaces including HD-SDI, SDI, HDMI and Composite video in a fan-less, rugged design suitable for extreme conditions. Integration with VITEC's MGW Encoders, EZ TV IPTV System, and FITIS Full-Motion-Video Portal provide unique decoding functionality with access to Electronic Program Guide (EPG), AES decryption of streams, and user access managed through Active Directory.

Professional-Grade Decoding in Innovative Compact Footprint

MGW Micro Premium Decoder uses discrete hardware to provide a real-time, broadcast-quality picture with the highest quality of service and resilience required in complex IPTV environments. The highly compact design offers the flexibility of using the appliance for portable missions as well as a stationary decoder for 7x24 applications. The optional rack mount kit secures two units side by side in one standard 19" rack unit.

Best-in-Class Connectivity Options

MGW Micro Premium Decoder offers the highest flexibility with video outputs including HD-SDI, SD-SDI, HDMI and Composite video, with embedded audio or separate analog audio in a single appliance. The built-in scaler offers simultaneous play out of HD and a downscaled SD copy of decoded video.

Integrated & Secure End-to-End IP Video Delivery Solution

MGW Micro Premium Decoder can be used as a stand-alone high quality, low delay decoder or in conjunction with VITEC EZ TV and FITIS IPTV Systems to provide a fully secure end-to-end IP video delivery solution utilizing its real-time AES decryption capability. The tight integration with VITEC's IPTV and FMV video management and delivery solutions enables the use of the appliance as an end-point to view live and on-demand content and browse channel information using a visual Electronic Program Guide (EPG). Video operators can regulate access to content on each appliance using Active Directory by activating the built-in AD Authentication module in the decoder.

Low Delay Decoding

Combined with the low latency streaming capabilities of VITEC's MGW Encoding and Streaming Platforms, the Micro Premium Decoder offers low latency decoding of HD and SD streams with end-to-end latency of 400 milliseconds.



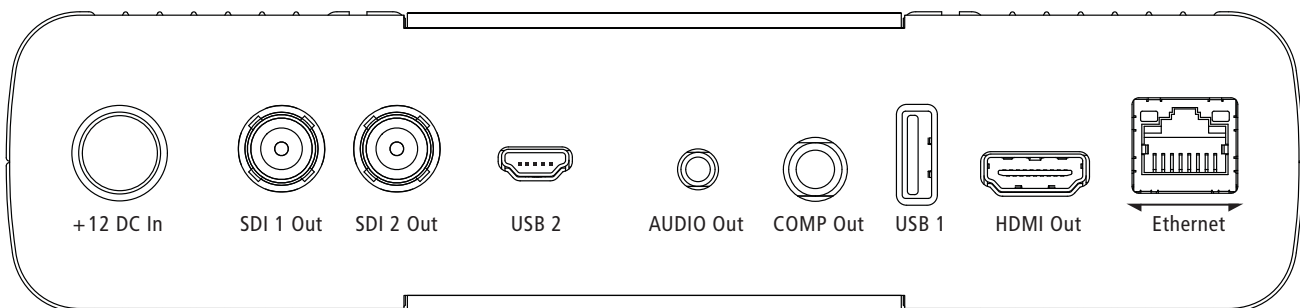
Benefits

- Small form factor, ideal for mobile applications
- HD and SD decoding of MPEG-1, MPEG-2 and MPEG-4 H.264 streams
- Rugged, fan-less, securable enclosure, optimized for harsh environments
- Transport infrastructure agnostic: Satellite, xDSL, LANs, WANs, 3G/4G/LTE and FTTx
- Integration with EZ TV IPTV System and FITIS ISR Systems with EPG and AES support
- Optional rack-mount kit secures up to two units side by side using 1-RU in standard 19" rack
- Cluster Management software provides aggregated view and control of all units on the network

Applications

- Broadcast-quality decoding of HD and SD IPTV streams
- Displaying of Situational Awareness and Full Motion Video (FMV) content on monitors, video walls and personal screens
- High-performance IP streams decoding on aerial and ground vehicles
- Digital signage
- Streaming PC content over IP and displaying on large screens
- Point-to-Point contribution of high quality video with SDI output

Rear Panel Interfaces



Technical Specifications

Supported IP Input Stream Formats:

- MPEG-4 H.264 HP@L4 up to 20.0 Mbps
- MPEG-4 H.264 MP@L3 up to 20.0 Mbps
- MPEG-4 H.264 BP@L2 up to 10.0 Mbps
- MPEG-2 MP@HL up to 20.0 Mbps
- MPEG-2 MP@ML up to 12.0 Mbps
- MPEG-1 up to 2Mbps
- Resolutions: QCIF - Full HD 1920x1080
- Frame rates: 1-60
- Color systems: PAL and NTSC
- Aspect Ratio: 4:3 and 16:9
- Streaming Protocols: UDP / RTSP (MPEG-2 TS encapsulation)
- Multicast and Unicast

Supported Audio Formats:

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

Input Interface:

- 1 x 10/100 Ethernet port

Output Interfaces:

- 1 x HD-SDI
- 1 x SD-SDI (downscales HD sources on-the-fly)
- 1 x HDMI
- 1 x Composite
- 1 x mini-jack for unbalanced stereo audio
- Embedded audio on HD/SD-SDI and HDMI interfaces

Electrical:

- Input Power: 90 - 240VAC
- Max. Power Consumption: 6W

Management:

- SSH application for system configuration and remote management
- On-screen graphical interface for system configuration and browsing live and on-demand content from EZ TV / FITIS Systems
- Remote firmware and software upgrade capability via command line
- Telnet/SSH API for integration with third-party systems

Compliance:

- Operating Temperatures: 0°C to 70°C (32°F to 158°F)
- Relative Humidity: 5% to 95% (non-condensing)
- EMC Standards: FCC part 15 class B and CE

Physical:

- Enclosure: Military-grade rugged aluminum case, portable and rack-mount options
- Dimensions: 43mmH x 190mmW x 198mmD (1.69"H x 7.48"W x 7.79"D)
- Fan-less design with mounting holes for securing to walls
- Optional racking-kit for standard 19" wide IT racks

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