

MGW 400

Compact MPEG-4 IPTV Streaming Platform



MGW 400 is a portable, hardware-based MPEG-4 encoding and streaming platform. From low bit-rate streaming to full screen resolution compression at DVD quality (Full D-1), MGW 400 offers comprehensive capabilities in a dense, space-efficient form factor.

MGW 400 platform is designed to operate on networks including LANs, WANs and satellite links and can be installed at the head-end, at remote sites or on vehicles. It offers full control of network and MPEG parameters to help operators utilize their bandwidth efficiently. Plug-and-play architecture and auto-start using last known configuration make MGW 400 easy to operate and easy to move between locations.

An internal hard drive allows operators to stream video over IP while simultaneously creating and storing MPEG files with the MGW 400. Stored assets can then be used for offline retrieval, VOD uploads and scheduled playback.

The military, education and government facilities where MGW 400 is installed count on its hardware-based architecture and reliability for 24x7 applications. ISMA-compliance ensures interoperability with market leading PC/Mac players such as QuickTime, Real Player, VideoLAN, (VLC) and Windows Media Player.

When combined with EZ TV IPTV System, MGW 400 provides a complete solution for education, corporate communications, monitoring and tactical video applications.

Benefits

- Hardware-based encoding generates high video quality at low bit rates
- Tactical mode offers unmatched point-to-point transmission with 50-millisecond latency
- Reliable, compact and lightweight appliance is optimized for mobile applications
- Interoperability with multiple software players allows targeting of any audience
- Developer API enables integration with third party applications

Applications

- Live TV streaming over corporate network
- Education video and recording
- Remote and mobile site streaming
- Tactical IPTV services

Key Features

- Dual or quad channel platforms in 1-RU, laptop-size form factor
- User-friendly HTTP management interface
- Front LCD for monitoring and status messages
- Selectable encoding rates from 10Kbps to 4Mbps
- Dynamic broadcasting of channel guide using SAP/SDP

Technical Specifications

Standards Compliance

- MPEG-4 Video - ISO/IEC 14496-2:1999, ISO/IEC 14496-1:2000(E), ISMA compliant (MPEG-4 part 2)
- MPEG-4 Audio - ISO/IEC 14496-3:1999 and AMD1 2000 (AAC LC)

Input/Output Interfaces

Video Input Signal

- Supports NTSC, PAL
- Composite Video: BNC x2 / x4 (Dual / Quad Model)
- S-Video: 4 pin mini-DIN x2 / x4 (Dual / Quad Model)

Audio Input Signal

- Unbalanced Analog Stereo/Mono Line Input: RCA x4 / x8 (Dual / Quad Model)

Output and Control

- 10/100 Mbps Ethernet: RJ-45 x1 (AutoSense, Full/Half Duplex)
- RS-232 x1
- USB 2.0 x2

Video Output over Ethernet

- Profiles: MPEG4@SP or MPEG4@ASP
- Resolutions: QCIF, CIF, HD-1, 2/3 D-1, 3/4 D-1, FD-1
- Bit rate: 10Kbps-4Mbps
- Frame sampling: 1-30 fps

Audio Output over Ethernet

- Format: MP4 Audio
- Bit rate: 24-320Kbps MPEG-4 AAC LC
- Sampling rate: 32KHz at 24 bits per sample

Available Models

- MGW 400 Dual - Supports two MPEG-4 channels
- MGW 400 Quad - Supports four MPEG-4 channels

Panel I/O and Indicators

- Front panel LCD screen
- Power indicator LED on front panel
- Power switch and input with secure lock mechanism on back panel

Storage

- Internal hard drive: up to 160GB

Management

- Web-based remote management application (HTTP)
- Telnet for remote configuration
- Local configuration via RS-232 port

Network Protocols

- Unicast / Multicast / HTTP / IP / Telnet / RTP / ISMA

Physical Dimensions

- Width: 12.283" (312mm); Depth: 11.889" (302mm)
- Height: 1 U-metal frame height for mounting (44mm)
- Weight: Up to 5.51lbs. (2.5kg)

Electrical Characteristics

- Unit power input: DC 10-30V
- External power supply:
 - Input: 90-130V, 180-240V auto range
 - Output: 19V / 8A
 - Operating line frequency: 47-63Hz

Environmental

- Operating temperature: 5-45° C, 41-113° F
- Storage temperature: -10-70° C, 14-158° F
- EMC standards: FCC class B, CSA Class B

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