



TV Streaming Platform  
for IP Networks

# MGW 2000e



# MGW 2



## Functionality

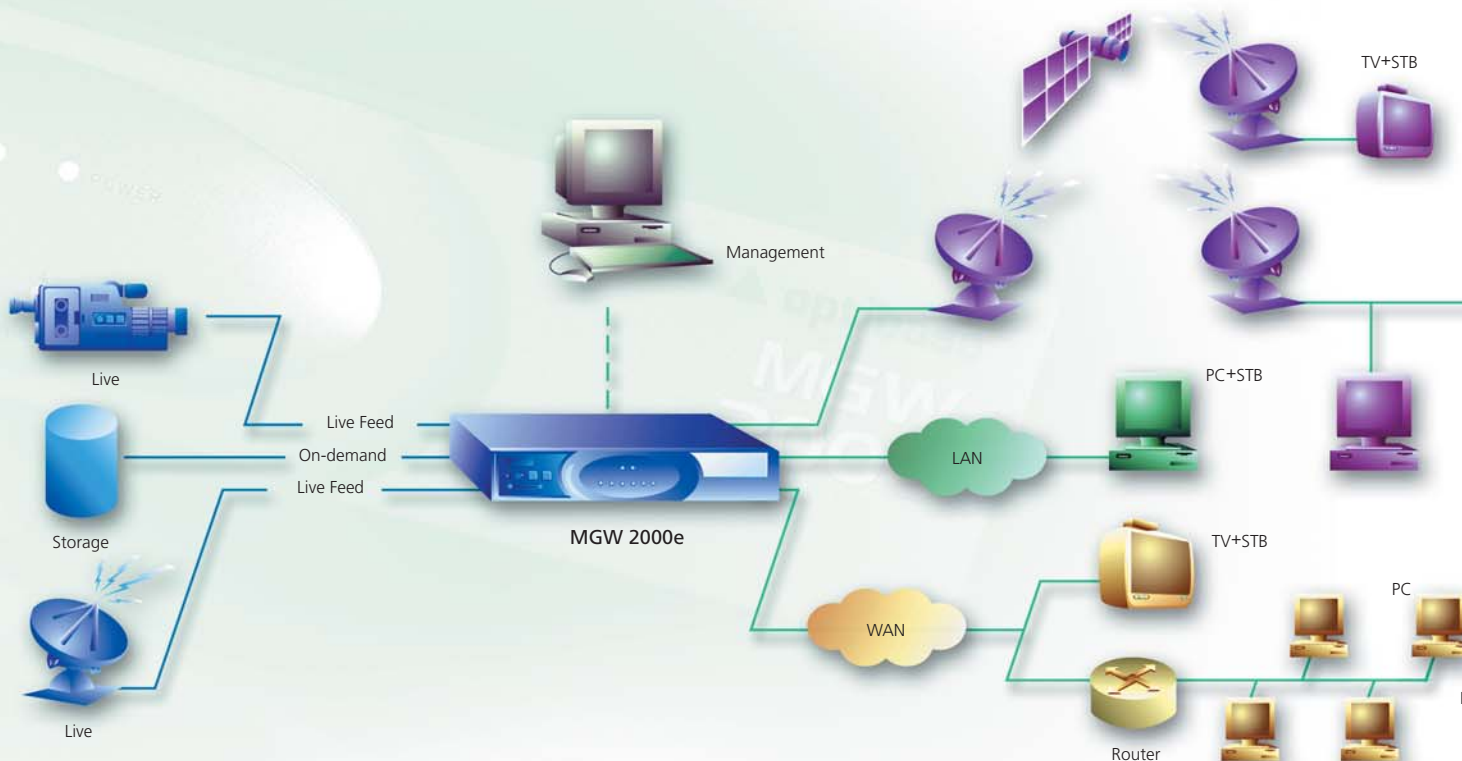
MGW 2000e transmits multiple channels of live TV and video over IP networks. It can receive up to six live analog or SDI signals, encode them in real-time to MPEG-1 or MPEG-2 and then stream them over an IP network in multicast or unicast mode. With MGW 2000e, organizations can utilize their IP networks for business TV, training, and corporate communications.

## Web-Based Remote Management

MGW 2000e's remote management system enables the configuration, operation and monitoring of multiple streams via a Web-based management application. Alternatively, system integrators can develop customized front-ends using MGW 2000e ActiveX controls and DirectShow development tools.

## Advanced Capabilities

MGW 2000e combines ease-of-use with advanced features and top video quality, giving you all you need to set up a TV-quality streaming solution. Low latency allows instantaneous communication and video delivery – a crucial element of training and business TV applications. By supporting both the Session Announcement Protocol (SAP) and Session Description Protocol (SDP), video channels streamed by the MGW 2000e automatically trigger the player, allowing you to easily choose between live and scheduled programming. MGW 2000e's traffic shaping mechanism optimizes the connection, enabling the best video quality over any network.

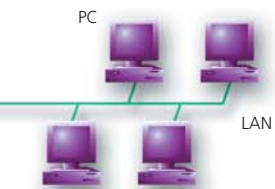


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## Benefits

- Low latency ensures spontaneity and instant response in interactive training and business TV applications.
- Traffic shaping optimizes video quality at any connection speed.
- Channel density allows you to maximize return on investment by streaming multiple live channels from a single chassis.
- A rack-mount system running on an embedded operating system with no moving parts offers reliability and low maintenance costs.
- A single integrated box offers MPEG-1 mixed with MPEG-2 modules, each operating at a wide range of bit rates and video resolutions.
- A single web-based management application controls all MGW 2000e platforms used throughout the network.



## Compatible Products

### QuickVideo Video-on-Demand Software

Optibase offers value added video-on-demand software packages that integrate seamlessly with the MGW 2000e streaming server to form end-to-end streaming and VOD solutions.

### QuickVideo Player

A playback solution that combines Video-on-Demand (VOD) and live playback utilizing Windows or Linux based desktops as well as set-top-boxes.

### Optibase Player

An MPEG-1 and MPEG-2 player for Windows based desktops. Optibase Player is optimized for low-latency. It supports hardware playback through Optibase's VideoPlex Xpress MPEG-2 and MPEG-1 decoding board and MPEG-1 and MPEG-2 software playback.

### Optibase VideoPlex Xpress

An MPEG-1 and MPEG-2 video-in-a-window and composite decoding board.

### Third Party Players

- Apple Quick Time 6.0 software player (MPEG-1 MPEG-2)
- RealNetworks RealOne player (MPEG-1)
- Cisco IPTV Player

## Features

- Multi-channel MPEG-2, MPEG-1 and MP3 streaming from 32 Kbps to 10 Mbps
- Plug-and-play, rack-mounted unit
- Low latency
- Diffserv QoS support and RTP/RTCP protocol
- TV/DVD quality
- Web-based remote management
- Real-time stream upload to video servers
- Supports 48 Mbps throughput
- Stores video on a local SCSI drive connected to the MGW 2000e

## Applications

- Business TV
- Corporate communications
- Training
- Video-on-demand
- Monitoring / surveillance

# MGW 2000e

## Technical Specifications

### Supported Modules

- MGE-100: MPEG-1 encoding module with analog video and audio inputs.
- MGE-200 FD1 720: MPEG-1 and MPEG-2 encoding module with analog video and audio inputs up to Full D1 resolution (supports 2/3 D1, 3/4D1, 704 and 720 resolutions).
- MGE-200 low latency: MPEG-1 and MPEG-2 encoding module with analog video and audio inputs. Supports up to Half D1 resolution with MP@ML and up to Full D1 resolution for SP@ML.
- MGE-200D FD1 720: MPEG-1 and MPEG-2 encoding module with SDI, digital audio and analog audio up to Full D1 resolution (supports 2/3 D1, 3/4D1, 704 and 720 resolutions) at up to 10 Mbps.

### Physical

- Dimensions: 17.1 x 15.4 x 2RU inches (WxDxH), 434 x 391 x 2RU mm (WxDxH) (19"/483 mm rack compliant, 23"/584 mm rack, ETSI compliant with brackets)
- Weight: 15.5lbs/7kg
- Scalability: up to 6 encoding modules, field replaceable

### Electrical Characteristics

- Power consumption: Max. 200W, 90-260V autorange
- Operating line frequency: 47-63 Hz

### Input/Output Interfaces

- 2 X 10/100 BaseT Ethernet Full Duplex or Half Duplex support (RJ-45 connectors)
- Ultrawide II SCSI-68 pin SCSI connectot

### Environmental

- Operating temperature: 0-45°C, 32-113°F
- Storage temperature: 10-70°C, 14-158°F
- EMC standards: CE Class B, FCC Class A, CSA Class- A

### Safety standards

- CE-LVD

### Management

- Web-based remote management application: Telnet for remote configuration
- Local configuration via RS-232 port

### Network Protocols

- UDP Multicast/Unicast
- RTP Multicast/Unicast
- SAP RFC 2974, SDP-RFC 2327

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