

## Internet Distribution Gateway

DMG 7000



Utilizing the latest software-based platform from Sencore, the DMG 7000 is focused on providing a gateway between broadcast MPEG/IP networks and internet-based distribution protocols.

These ever-growing protocols like SRT, Zixi, RIST and HLS allow content providers to use consumer based internet connections to provide reliable, low-cost distribution networks.

No longer is high-cost satellite and fiber links required to backhaul high quality content from remote sites to head-ends or distribute content to regional hubs. Being a software-based, the DMG 7000 can be deployed on COTS hardware in a variety of form factors from mini-PCs to 1RU rack mount servers and virtual environments such as AWS or Google Cloud.

Reduce your CAPEX and OPEX expenditures and utilize the latest technologies in internet distribution to broadcast your content.

### Content Distribution over the Internet

Enable low-cost distribution workflows using protocols like SRT and Zixi on the open internet. Reduce OPEX and CAPEX of backhaul or backup networks.

### Bridge Between Managed and Unmanaged Networks

Backhaul over the open internet with advanced encapsulation methods. Receive and transmit protocols such as SRT, Zixi and MPEG/IP for broadcast workflows.

### Key Features

- Gateway between MPEG/IP and Internet Distribution Protocols
  - SRT protocol with AES encryption
  - Zixi protocol with ZEN Master integration
  - HLS reception in push and pull modes
  - MPEG/IP RTP/UDP as MPTS or SPTS
- Software deployment on COTS hardware or virtual environments
  - Mini-PC or 1RU rack mount for any application
  - Cloud environments like AWS or Google Cloud

# Internet Distribution Gateway

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## SPECIFICATIONS

### Input and Output Options

#### MPEG/IP Receive and Transmit

##### Receive

Input Type	UDP, RTP and RTP with extension headers Multicast and unicast CBR and VBR streams SMPTE 2022/CoP3 FEC SMPTE 2022-7 hitless switching
Multicast filtering	Filter based on IP address VLAN tagging IDs
Buffer size	1-4000KB or 1-4000ms
Bitrate range	.25-200 Mb/s
Packets/IP frame	1-7 MPEG packets/IP frame
IGMP compatibility	Version 2 and 3

#### SRT Receive and Transmit - DMG 70701

##### Receive

Protocol and IP Range	UDP, unicast
Negotiation modes	Caller, listener, rendezvous
Latency	20-8000ms, user configurable
Bitrate range	0.25-50 Mb/s
Decryption	AES-128, AES-256 10-79 UTF-8 characters
Packets/IP frame	Auto detect, 1-7 MPEG packets/ IP frame

##### Transmit

Protocol and IP range	UDP, unicast
Negotiation modes	Caller, Listener, Rendezvous
Latency	20-8000ms, user configurable
Bandwidth overhead	0-50% of content bitrate
Bitrate Range	0.25-50Mb/s
Encryption	AES-128, AES-256 10-79 UTF-8 characters
Packets/IP frame	1-7 MPEG packets/IP frame

#### Zixi Transmit and Receive - DMG 707012

##### Receive

Protocol and IP range	UDP, unicast
Mode	Connect or pull mode, to Broadcaster
Latency	30-10000ms, user configurable
Bitrate range	1-50 Mb/s
FEC overhead	0-50% of content bitrate
Decryption	AES-128, AES-192, AES-256 10-79 UTF-8 characters
Packets/IP frame	Auto detect

##### Transmit

Protocol and IP Range	UDP, unicast
Mode	Connect or pull mode, to Broadcaster
Latency	30-10000ms, user configurable
Bandwidth overhead	0-50% of content bitrate
Bitrate range	0.25-50 Mb/s
Encryption	AES-128, AES-256 10-79 UTF-8 characters
Packets/IP frame	1-7 MPEG packets/IP frame

#### HLS Receive - DMG 70704

##### Receive

Protocol and IP Range	HTTP, HTTPS, TCP, Unicast
Payload	Chunked transport stream
Modes	Pull and push via WebDAV Push mode supports up to 200GB of content storage

### General

#### Management

Protocols	HTTP, HTTPS, and SNMP
User interfaces	Full control via web GUI
Automation interfaces	Full status and control via SNMP Configurable SNMP traps Restful API Syslog message logging
Firmware updates	via web GUI