Haivision SRT Gateway is a highly flexible and scalable broadcast solution for secure routing of live video streams across different types of IP networks. By serving as a network bridge and converting between protocols, SRT Gateway facilitates streaming live video content to one or several destinations for broadcast production and distribution.

Network Bridging Complex video workflows can involve many live production stages across multiple locations and network types including LANs, WANs, MPLS, IP over satellite, and the internet. Haivision SRT Gateway performs stream routing and protocol conversion in real-time, across different networks, without affecting video quality and latency.

Protocol Conversion Each network and edge point along a video stream's path require specific transport protocols. Haivision SRT Gateway converts live video from one protocol to another. For instance, broadcast contribution streams can be converted on the fly from Transport Stream to SRT for backhaul across the internet or to UDP with multicast, for efficient LAN distribution. In supporting confidence monitoring or bi-directional live interviews, return feeds can be delivered with the most suitable protocol for both remote and in-studio viewing.

Point to Multipoint Streaming Distributing a live video source to multiple destinations, such as broadcast affiliates or syndication rights holders, can only be achieved by meeting the specific streaming requirements of each destination. Haivision SRT Gateway can replicate a single incoming stream for 24/7 broadcast distribution as multiple outgoing streams, each configured to a specific protocol, in unicast or multicast mode.

Secure and Reliable Fully supporting the open source streaming protocol, SRT, pioneered by Haivision, SRT Gateway can ingest, relay, and encrypt video streams with AES 128- or 256-bit keys for end to end stream protection. The Emmy Award winning SRT provides robust packet retransmission for recovering lost packets while minimizing bandwidth overhead and impact on latency.

Firewall Traversal IP firewalls block external access to a network and prevent video streams from being delivered from one location to another. A Haivision SRT Gateway can be located anywhere outside of a network's firewall for sharing content without breaching network security policies.

Flexible Deployment Video streaming routes are increasingly complex and may include both on-premise and cloud based infrastructure. Haivision SRT Gateway is available in different deployment options to facilitate your broadcast production and distribution workflows. Whether as dedicated server appliance or a virtual machines (VM), Haivision SRT Gateways can easily be deployed anywhere for all types of broadcast streaming applications.

FEATURES	BENEFITS
Streaming Protocol Conversion	Convert between live streaming protocols without impacting latency.
Network Bridging	Bridge between cloud platforms, Internet, MPLS, IP over Satellite, LAN, and WAN networks.
One Stream to Many	Replicate a source stream to multiple destinations for live content distribution.
Codec Agnostic	Ingest and distribute any type of live video content.
Firewall Traversal	Securely share live content across enterprise networks without breaching firewall policies.

HAIVISION SRT GATEWAY

Inputs:
- MPEG Transport Stream over UDP
- MPEG Transport Stream over RTP
- MPEG Transport Stream over RTP with FEC (SMPTE 2022-1)
- MPEG Transport Stream over SRT with RTP headers (passthrough)
- SRT Streams
- RTSP (non-HTTP)
- RTMP (from Server and from RTMP encoder)

Outputs:
- MPEG Transport Stream over UDP
- MPEG Transport Stream over RTP
- MPEG Transport Stream over RTP with FEC (SMPTE 2022-1)
- MPEG Transport Stream over SRT with RTP headers (passthrough)
- SRT Streams
- Encrypted HLS with configurable segment size

Networking:
- Unicast and Multicast (IGMPv3) Support
- Network Routing and Bonding
- Stream ID - SRT Multiplexing over UDP
- SMPTE 2022-1 Pro-MPEG FEC Support
- 128/256-bit AES Encryption
- Metadata Pass-Through:
- Closed Captioning (EIA-608 & EIA-708)
- KLV
- Time Code

Management:
- Web User Interface (HTTPS)
- Console UI
- REST API

SRT Tools (via GUI):
- Export 24h of SRT statistics data
- Track connected clients and individual statistics
- Configurable SRT Input Buffer

HAIVISION SRT GATEWAY SYSTEM 10:
10 channels (100 Mbps aggregate output).
Small form factor appliance

Platform:
- Secure Linux-based OS (NIST 800-53 r.4)

Network:
- 2x GigE Base-T NIC

Weight/Dimensions:
- 2.65 lbs (1.41 kg)
- 35.5H x 184W x 184D (mm) (1.4"H X 7.24"W X 7.24" D)

Power:
- External Power Supply 65W

HAIVISION SRT GATEWAY SYSTEM 20:
20 channels (200 Mbps aggregate output).
Server platform (1RU)

Platform:
- Secure Linux-based OS (NIST 800-53 r.4)

Network:
- 2x GigE Base-T NIC

Weight/Dimensions (without faceplate):
- 17.76 lbs (8.058 kg)
- 1RU: 42.4H x 434W x 394.3D (mm)
- 1.669"H x 17.086"W x 15.523"D

Power:
- Single Power 250W

HAIVISION SRT GATEWAY SYSTEM 50:
50 channels (500 Mbps aggregate output).
Server platform (1RU)

Platform:
- Secure Linux-based OS (NIST 800-53 r.4)

Network:
- 2x SFP+ (up to 10Gbps) Expansion Slots
- (Copper 1Gbps Module included)

Weight/Dimensions (without faceplate):
- 43.87 lbs (19.9 kg)
- 1RU: 42.8H x 434W x 607D (mm)
- 1.685"H x 17.086"W x 23.897"D

Power:
- Dual Power 350W

VIRTUAL MACHINES
- VMware
- VSphere ESXi v5.5 and above

Haivision SRT Gateway software version 3.3

Haivision SRT Gateway Product Portfolio & Ordering Information **

Haivision SRT Gateway System 10/20/50	**S-SG-10** **S-SG-20** **S-SG-50**	Stream up to 50 channels (500 Mbps aggregate output).
Haivision SRT Gateway VM 10/20/50	**VM-SG-10** **VM-SG-20** **VM-SG-50**	Stream up to 50 channels (500 Mbps aggregate output). VMWare Virtual Machine (no hardware included).
Haivision SRT Gateway Cloud License	**MI-SG50-AZU-BYOL** **MI-SG50-AWS-BYOL** **MI-SG50-ALI-BYOL**	50 channel license for deployment of SRT Gateway on Azure, AWS, or Alibaba cloud.

** For complete pricing and ordering, contact us at sales@haivision.com or your certified Haivision reseller.