



RelayCaster 200

With RelayCaster, reliability and data rates of contributing and distributing live content can be greatly improved, and packet loss issues can be solved efficiently.

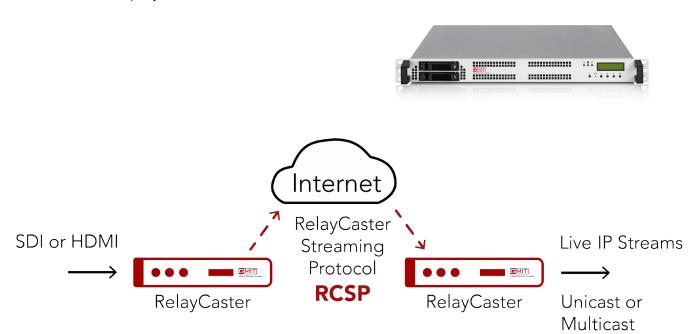
RelayCaster allows for replacing expensive satellite links or expensive contracts with CDN service providers.

In contrast to these services, RelayCaster is not limited to certain regions or data centers. RelayCaster enables distribution of your content across any distance, to any place that is reachable by Internet infrastructure. With optional encryption your streams will be protected between all senders and receivers.

RelayCaster 200 is a 19-inch rack-mountable server appliance. Using the RelayCaster Streaming Protocol (RCSP) as streaming protocol between two RelayCaster servers allows for the optimized transmission of live IP streams to remote company sites, data centers, or networks.

Application Areas

- Optimized distribution and contribution of live content
- Improved reliability and higher band widths on long distance Internet links
- · Fixes packet loss up to 50%
- Replacement for expensive satellite links and CDN contracts



Using the RelayCaster Streaming Protocol (RCSP) as streaming protocol between two RelayCaster servers allows for the optimized transmission of live IP streams to remote company sites, data centers, or networks. Compared to streaming with UDP or RTP, RCSP greatly reduces packet loss. Compared to content distribution with TCP or higher-level protocols, such as FTP or HTTP, GMIT's RCSP offers much higher bandwidths for transmission of live content over lossy long distance links.

This approach can be scaled. You can create your own Content Delivery Network (CDN) of

RelayCaster servers: Live IP streams from a central data center are re-distributed to various intermediate and terminating data centers that are spread around the world.

Over-The-Top (OTT) streaming, adaptive bitrate streaming (ABR), and RelayCaster work together nicely: In each data center, streams received by RelayCaster are forwarded to OTT streaming servers providing streams to end users' devices that are nearby' (in terms of Internet distance). To this end, RelayCaster helps pushing' streams close to end users.





IP Streaming



- · 2x Ethernet interfaces supported
 - · 1x Mgmt (Management and Streaming)
 - · 1x GbE (Streaming only)
- · MPEG Transport Stream (MPEG-TS)
 - · MPEG-SPTS (Single Program Transport Stream)
 - · MPEG-MPTS (Multi Program Transport Stream)
 - · Support for common audio/video codecs
- · Protocols
 - · Unicast / Multicast / Broadcast
 - · UDP
 - · RTP over UDP
 - · RelayCaster Streaming Protocol (RCSP)
- · Fixes packet loss rate of up to 50%
- · Unlimited number of input and output streams
- · Total bandwidth: Up to 100 Mbps



Stream Protection

- · Encryption and decryption with AES
- · 128, 192 and 256 bits



Administration

- · Linux system
- · Responsive Web interface (http/https)
- · ssh
- · Free Software Developer Kit (SDK) for XML-RPC and PHP



Hardware

- · 1 U, 19" rack mountable
- · 1x SSD (Hot swap carriers)
 - · Option: Redundant disk array (RAID1, 2x SSD)
- · VGA port, keyboard port, mouse port for KVM
- · Height x Width x Depth
 - · 43 mm (1.7") x 426 mm (16.8") x 495 mm (19.5")
- · Voltage: 100V 240V AC, 50-60 Hz
- · Weight: 9 kg
- · Power consumption:
 - \cdot < 4 W (standby), 45 W (idle) to 55 W (loaded)
 - · Option: Redundant power supply
- · High-quality server appliance assembled in Germany

