



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.

Being compatible with existing gateways, transcoders, conditional access systems, streaming servers, and set-top boxes, RelayCaster appliances can be seamlessly integrated into your existing infrastructure: Input and output streams of RelayCaster support standard compliant protocols.

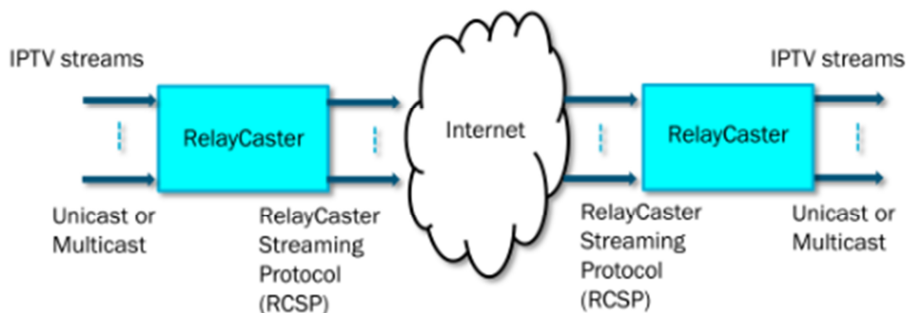
RelayCaster 1000 is a 19-inch rack-mountable server appliance.

Using the RelayCaster Streaming Protocol (RCSP) as streaming protocol between two RelayCaster servers allows for the optimized transmission of IPTV 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, Motama's RCSP offers much higher bandwidths for transmission of live content over lossy long distance links.

RelayCaster 1000

Application areas

- Optimized distribution and contribution of live content
- Improved reliability and higher bandwidths on long distance Internet links
- Fixes packet loss issues within network
- Replacement for expensive satellite links and CDN contracts



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

RelayCaster 1000



<ul style="list-style-type: none"> ■ IP Streaming 	<ul style="list-style-type: none"> ■ 2x Ethernet interfaces supported <ul style="list-style-type: none"> ■ 1x Mgmt (Management and Streaming) ■ 1x GbE (Streaming only) ■ MPEG Transport Stream (MPEG-TS) <ul style="list-style-type: none"> ■ MPEG-SPTS (Single Program Transport Stream) ■ MPEG-MPTS (Multi Program Transport Stream) ■ Support for common audio/video codecs ■ Protocols <ul style="list-style-type: none"> ■ Unicast / Multicast / Broadcast ■ UDP ■ RTP over UDP ■ RelayCaster Streaming Protocol (RCSP) ■ Output rate for receiving UDP and sending UDP <ul style="list-style-type: none"> ■ 1x incoming stream: sending up to 850 Mbps, or 150 SDTV streams, or 90 HDTV streams ■ Several incoming streams: receiving up to 600 Mbps, and sending up to 600 Mbps, or 100 SDTV streams, or 62 HDTV streams ■ Output rate for receiving UDP and sending RCSP <ul style="list-style-type: none"> ■ Several incoming streams: receiving up to 400 Mbps and sending up to 400 Mbps, or 70 SDTV streams, or 45 HDTV streams (simulated 1% PLR, 50 ms delay) ■ Output rate for receiving RCSP and sending UDP <ul style="list-style-type: none"> ■ Several incoming streams: receiving up to 400 Mbps and sending up to 400 Mbps, or 70 SDTV streams, or 45 HDTV streams (simulated 1% PLR, 50 ms delay)
<ul style="list-style-type: none"> ■ Stream Protection 	<ul style="list-style-type: none"> ■ Encryption and decryption with AES <ul style="list-style-type: none"> ■ 128, 192 and 256 bits
<ul style="list-style-type: none"> ■ Administration 	<ul style="list-style-type: none"> ■ Linux system ■ Responsive Web interface (http/https) ■ ssh ■ Free Software Developer Kit (SDK) for XML-RPC and PHP
<ul style="list-style-type: none"> ■ Hardware 	<ul style="list-style-type: none"> ■ 1 U, 19" rack mountable ■ 1x SSD (Hot swap carriers) <ul style="list-style-type: none"> ■ Option: Redundant disk array (RAID1, 2x SSD) ■ VGA port, keyboard port, mouse port for KVM ■ Height x Width x Depth <ul style="list-style-type: none"> ■ 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: <ul style="list-style-type: none"> ■ < 6 W (standby), 50 W (idle) to 150 W (loaded) ■ Option: Redundant power supply ■ High-quality server appliance assembled in Germany

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This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (<http://www.openssl.org/>)

This product includes cryptographic software written by Eric Young (ey@cryptsoft.com)