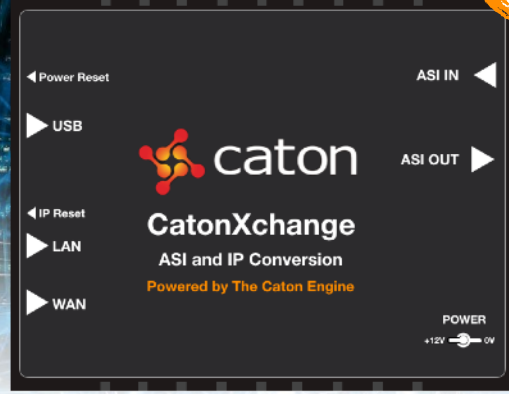




**New**  
v1.1.5 Update



## Convert • Connect • Contribute

### Your Video Gateway from anywhere to anywhere

#### The Next Generation of Professional IP Transmission and Conversion

Finally, a compact solution for all of your IP transmission and conversions needs. Introducing CatonXchange.

A complete IP conversion and transmission appliance with built-in transport stream analysis, and recording. Powered by The Caton Engine, global IP delivery is now easy and affordable. Caton brings SRT to the latest CatonXchange update to provide more options for our customer for more flexible workflow.

CatonXchange brings both ASI and Ethernet I/O into a single appliance with the ability to simultaneously transmit out to Content Delivery Networks (CDNs), record external USB storage and other Caton Devices.

CatonXchange utilizes the Caton Engine's R2TP protocol for world-class reliable transmission of carrier-quality video over any IP network. Global delivery of the most demanding video is now plug and play.

With full I/O support of major IP and ASI standards, CatonXchange also supports a wide variety of IO configurations including HTTP, ASI, RTMP/RTMP-S and UDP. A user friendly, browser-based interface allows for easy configuration and remote control.

CatonXchange is compatible with leading CDN solutions like YouTube, Facebook, and Twitch, and opens up new video transmission workflows in areas like live events, houses of worship, corporate communications, e-medical, eSports and education.

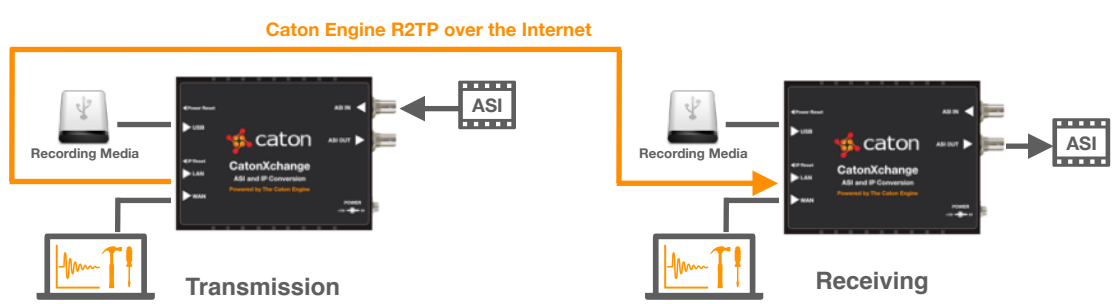
CatonXchange is a cost effective, flexible IP video transmission appliance with integrated ASI and Ethernet input and output. With support for multiple industry standard protocols, as well as the Caton's industry-leading R2TP, easily connect broadcast and IP workflow.



CatonXchange is format, resolution, and codec independent. Conversion and transmission support for all digital media formats from web to broadcast.

## Workflow • Multiple possibilities

### Point to Point, ASI to ASI example



Caton Engine's R2TP is an IP-based transport protocol designed specifically to solve QoS/QoE problems for live data transmission over the Internet. Applying highly advanced network congestion control techniques, R2TP maximizes Bandwidth Utilization Ratio (BUR) for high-quality content over nearly any given bandwidth.

R2TP applies highly efficient error correction mechanisms by combining a variant Automatic Repeat Request [ARQ] retransmit method and Caton's Adaptive Network Code (ANC) engine to ensure highly reliable transmissions with lower latency.

# Top Features



## Internet Transport

Overcome packet loss, jitter and delay with Caton Engine's advanced transmission protocols, guaranteeing reliable transmission of your high bitrate video over the Internet or other IP networks. With SRT support, CatonXchange can convert SRT to other protocol for different workflow.



## Recording

CatonXchange supports simultaneous recording into USB media during transmission. Recorded files can be download via web UI.



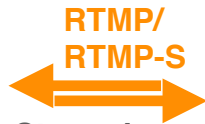
## Security

CatonXchange supports AES-128 or AES-256 encrypted transmission using Caton Engine R2TP. IP whitelist and blacklist for remote control for higher security level.



## Connections

Integrated ASI and Gigabit Ethernet standard connectors make CatonXchange a bridge between broadcast and IP transmission workflows. ASI output is also firmware switchable to 188 or 204 byte.



## Streaming

CatonXchange supports RTMP/RTMP-S Push to CDNs and also RTMP/RTMP-S Pull from CDNs and conversion into ASI, UDP or HTTP.



## CatonLink

CatonLink design to support multiple Caton devices by logging into one of them. Register other CatonXchange to one master, then remote control and monitor all of them by single login.

# CatonXchange



## Monitoring

CatonXchange has built-in real-time TS Monitor to log TS bitrate and stream status. All logs can be exported as CSV files.



## Web Server

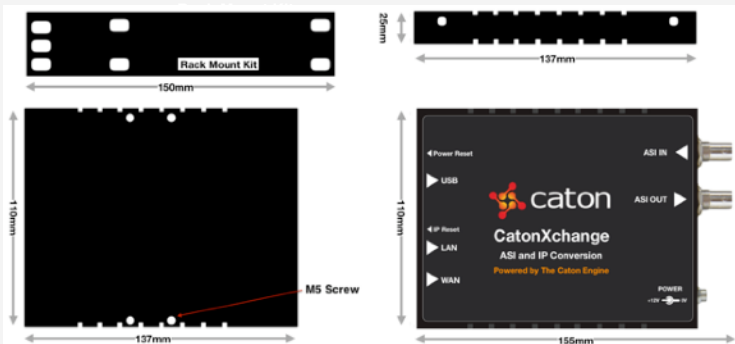
CatonXchange's easy to use web browser interface make setup simple. Configure, control and monitor in one location.



## TR 101 209 Analyser

CatonXchange built in TR 101 209 Priority 1 TS Analyser: TS\_sync\_loss, Sync\_byte\_error, PAT\_error\_2, Continuity\_count\_error and PMT\_error\_2.

# CatonXchange Tech Spec



## I/O

- ASI input and output (Compliance ISO/IEC 13818-1) up to 108Mbps
- UDP input and output up to 160Mbps
- R2TP with overhead input and output up to 80Mbps
- SRT with overhead input and output up to 20Mbps
- USB 2.0 support recording
- 10/100/1000 Ethernet (RJ45) for WAN and LAN

## Network and Control

- DHCP (Default) / Static IP address
- API integrates with third-party controllers and applications
- Full web-based remote control
- Command and control: HTTP with logs recording
- CatonLink support remote control and monitoring other CatonXchange

In/Out with protocol conversions, makes everything flexible.

OUT \ IN	R2TP Push	SRT Listener	RTMP(s)-push	UDP	HTTP	TS Recording	TS Analysing
R2TP Push		✓	✓	✓	✓	✓	✓
R2TP Pull	✓	✓	✓	✓	✓	✓	✓
RTMP-Pull	✓	✓	✓	✓	✓	✓	✓
UDP	✓	✓	✓		✓	✓	✓
SRT Listener	✓		✓	✓	✓	✓	✓
SRT Caller	✓		✓	✓	✓	✓	✓

## Transmission

- SRT, ASI, UDP, HTTP and RTMP/RTMP-S output
- Caton Engine R2TP output
- Recording as MPEG-TS file with no recompression
- AES-128/256 encryption up to 25Mbps via Caton Engine R2TP
- TR 101 209 P1.1-1.5 TS Analyser

## Power and operation

- 85~264V AC Input, Frequency Range 47~63Hz. Efficiency 85%
- Operating Temperature 0~+50 Degree C
- Operating Humidity 20~90% Relative Humidity
- Rack Mount Kit is included

3 years limited hardware warranty from the date of purchase