



Flussonic Coder

A modular multi-format and multi-protocol transcoder, packager, and origin server with a consistent, high density channel count independent of input or output encoding formats and protocols.

FEATURES

- Ingress various DVB, IPTV, and OTT transport protocols.
- Transcode 48 FHD or 96 SD sources to frame-aligned streams for OTT delivery.
- Up to 8 dedicated video hardware accelerators with multi-codec support.
- Up to 2048 Embedded CUDA cores for advanced video analysis.
- Cluster support for horizontal and vertical scaling.
- Unlimited video archive in the cloud for Timeshift, CatchUP, nDVR and nPVR functionality.
- Multi-vendor DRM Support.
- Based on NVIDIA® Jetson™ TX2 SoC.
- Multiple redundancy and load-balancing options.
- Dual hot-swappable power supplies with AC and DC options.
- AVC and HEVC transcoding.
- IPTV/OTT (Re)Streaming.
- DVB to WebVTT subtitle conversion.
- VoD files streaming.
- Dynamic watermarking.
- SDI Encoding.

● TECHNICAL SPECIFICATIONS

Protocols and formats support

MPEG TS Ingest	SPTS, MPTS, Data PID Passthrough
MPEG TS Monitoring	TR101290
MPEG TS electronic program guide	EPG EIT
MPEG TS advertising	SCTE35
MPEG TS constant bitrate output	PCR accurate CBR NULL Pid Stuffing
Video resolutions	From 188i to 2160p (4k)
Frame rates	From 1 to 120 FPS
Streaming protocols	RTSP, RTMP, HLS, MPEG-DASH, Microsoft Smooth Streaming, WebRTC, MSE-LD, M4S, M4F
WebRTC models	Playback and publish streams over UDP and TCP transports
MPEG DASH features	Gap handling, CDN-Compatible playout, Subtitles, and Closed Captions support
VoD delivery	MP4, MKV
DRM support	DASH Widevine, HLS Fairplay, MSS Playready, Plain AES-128, Plain CAS (tokens)
Supported cloud DRM vendors	Conax DRM, BuyDRM (KeyOS), PallyCon, EzDRM

Video archive support

Archive access protocols	HLS, DASH, MSS, RTMP, RTSM, MSE-LD, HTTP MPEG-TS protocols
Granularity	Segment
DVR mode	Endless tape
MP4 export	YES
Scheduled recording	YES
Timeshift	Session, Stream
Cloud storage support	Amazon S3, Openstack Storage (swift)
Source replication	YES
Application RAID	YES

Transcoding and video processing

Video codecs	Mpeg2, H.264/AVC, H.265/HEVC
Audio codecs	AAC, AC3, Opus, MP3, MPEG2 Audio, PCMA/PCMU, E-AC3
Video processing	Transcoding, Transrating, Scaling/Re-Sizing, Transmuxing
Logo insertion	YES
Mosaic generation	YES
DVB subtitles conversion to WebVTT	YES
Ads insertion	YES

Broadcast multiscreen specification

Full HD	48 output multibitrate streams
HD	72 output multibitrate streams
SD	144 output multibitrate streams

CDN support

Push protocols	HLS push, RTMP push, UDP multicast retransmit
Akamai HLS-Push	YES
Flussonic cluster support	YES
Flussonic cluster ingest	YES
Peer redirection	YES
Transparent cluster DVR access	YES

Redundancy

Stream ingest failover	Automatic recovery to primary source, user configurable parameters and duration thresholds
Flussonic cluster load balancing	YES
Redundant PSU	YES
Independent transcoding modules	YES

Interfaces (Input - Output)

Management interface	1000 Base-T
Video Input/Output	4, 8, 16 x 1000 Base-T NIC
Serial interface	RS-232 console port
SDI	4, 8, 12, 16 SDI ports (optional)

Physical dimensions

Mounting	19", 2 or 4 Post Rack, 1 RU
(WxDxH)	438x525x44 mm
Weight	15 kg

Regulatory compliance

Approvals and compliance	RoHS, CE/FCC Class A, UL
EMC standards	FCC Part 15 Class A
Safety standards	CSA/UL 60950 - 1

Management

User friendly Web-UI
Flussonic Catena centralized management system
2x20 Character LCM, 4x Keypads
Event Handler Callbacks
HTTP API
SNMP

Power

Input	AC 90V-264V @47-63Hz
Power supply	300W 1+1 ATX Redundant PSUs
Typical power consumption	120 watt

Ordering information

Regular price Flussonic Coder 1840A from 24000 USD	4x 1000 Base-T NIC, 48 FHD mbr channels transcode
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● END-TO-END VIDEO DELIVERY SOLUTION

Flussonic Transcoder is a building block of the Flussonic Cluster required for processing, transmitting and further video recording. One can ingest a video stream with plenty of formats, codecs, and protocols in any point of presence of the Flussonic Cluster.

The ingested video streams exist in the Flussonic Cluster as a sequence of elementary frames. On ingress, the video is being demultiplexed into atoms and on egress, the video is being multiplexed and packaged back for delivering in every modern video streaming protocol.

48 FULL HD CHANNELS – 120 WATT

● CARRIER-GRADE VIDEO STREAMING APPLIANCE

Flussonic engineering team has been developing software for processing and streaming video since 2010. Our products allow operators to capture, transcode, record and deliver uninterrupted video to end-users.

We offer solutions for IPTV, OTT, cloud services and video surveillance providers. Flussonic hardware and software solutions generate revenue for many loyal customers in more than 100 countries around the globe.

● TO ARRANGE AN ONLINE DEMONSTRATION OR DISCUSS YOUR PROJECT, please contact: info@flussonic.com

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All product specifications are subject to change without notice. Version 2020-10-01.001