

# STREAMRON TRANSCODER

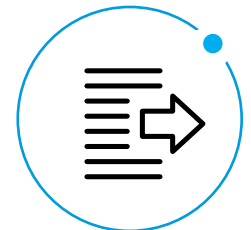
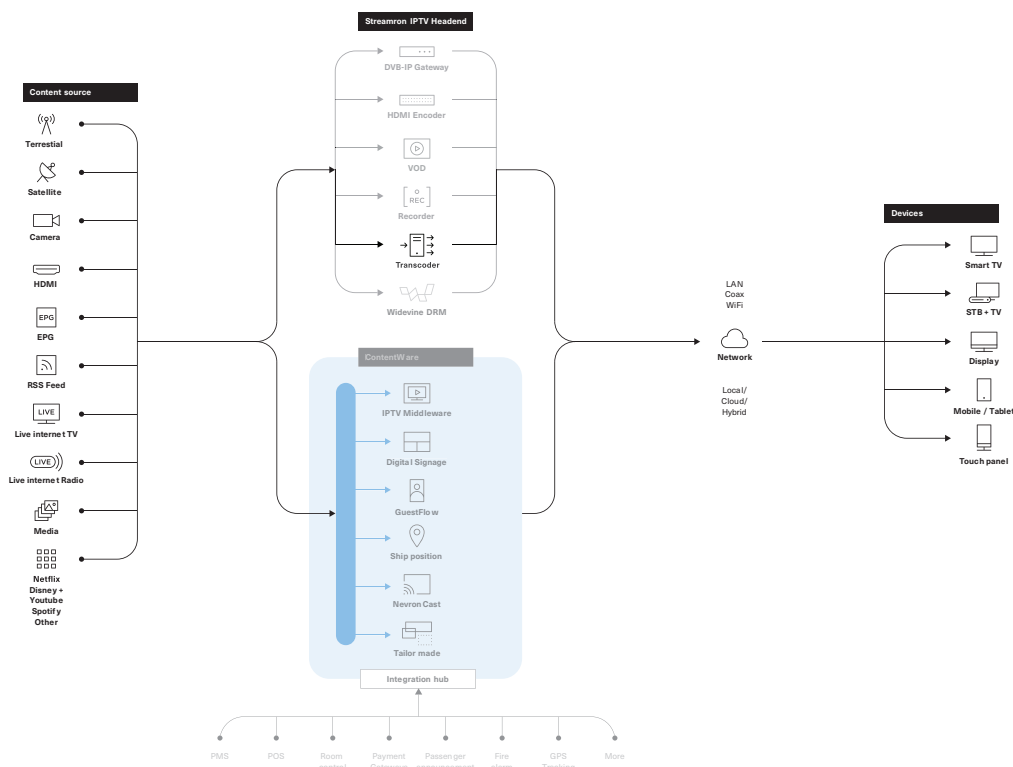
## High performance and efficient video transcoding

Streamron Transcoder is high performance and cost effective real-time video processing unit that transcodes linear and non-linear video content into multiple formats required for Live TV or On-Demand video distribution over managed or unmanaged networks.

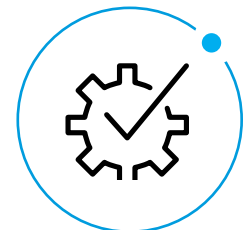
Typically, video content is distributed to various types of devices over networks varying in bandwidth. Streamron Transcoder produces multiple HLS profiles and resolutions to match service quality demands, regardless of target device and network type. It transcodes video and

audio content from different formats to allow flawless playback at STB's, Smart TV's mobile devices and computers. Various configuration options available to make sure Streamron Transcoder can be used in every scenario.

Streamron Transcoder can be coupled with CDN Origin and Edge streaming and caching servers. Available as pre-installed hardware server supplied by Nevron or can be delivered as software to be installed on standard servers provided locally by customers.



**20-40 streams per CPU / GPU**  
Hardware acceleration  
QuickSync / NVENC



**Powerful video processing**  
High-quality streaming  
performance



**Web based management**  
For simple configuration and  
monitoring



**Very efficient and cost  
effective**

OTT

HOSPITALITY

RESIDENTIAL



# STREAMRON

## TRANSCODER

### TECHNICAL SPECIFICATION



#### CODECS & FORMATS

##### VIDEO

- H.265/HEVC
- H.264/AVC
- MPEG-4, part 2
- MPEG-2 SPTS/MPTS
- HLS

##### AUDIO

- AC3 Audio (Dolby Digital)
- MPEG-1 Audio
- MP2 (MPEG-2 Audio)
- MP3 (MPEG-1 Layer 3)
- AAC (MPEG-2 Part7/MPEG-4Part 3)



#### SERVER

##### STANDART HW ARCHITECTURE

- x86 CPU with QuickSync
- NVIDIA GPU with NVENC
- 16Gb RAM
- 2Tb HDD
- 2x 1GbE NIC

##### POWER SUPPLY

- Dual redundant PSU,
- Hot-swappable
- 100-240V, 50-60Hz

##### CLUSTERING

- Link Aggregation (bonding) to increase capacity



#### INPUTS & OUTPUTS

##### INPUTS

- H.265/HEVC
- H.264/AVC
- MPEG-4, part 2
- MPEG-2 SPTS/MPTS

##### OUTPUT

- MPEG-TS (HTTP, UDP Multicast)
- HLS
- HDS, DASH, RTMP, RTSP/RTP, WebRTC
- HTML 5 (MSE-LD) low latency 300ms playback
- H.265, H.264



#### SOFTWARE

##### OPERATING SYSTEM

- Linux
- 8, 10 and 12bit color conversion
- Transrating, scaling
- Frame aligned, multi-bitrate output
- Logo Insertion