

# NETINT VIDEO TRANSCODING SERVER

LOW LATENCY. HIGH DENSITY. REAL-TIME VIDEO TRANSCODER.

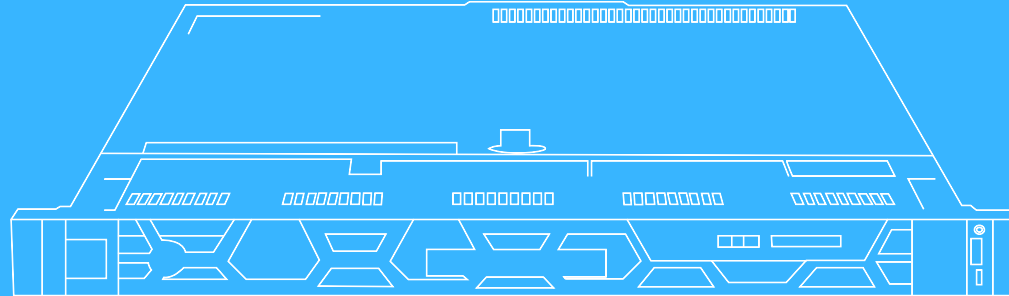
POWERED BY  
**DELL** Technologies

# Introduction

With the evolution of video streaming from file-based to real-time one-to-one, software-based video encoding can no longer meet the density, performance, and TCO benchmarks required.

The NETINT Video Transcoding Server powers real-time video applications and experiences with higher resolution and framerates at a TCO that is ten times less than CPU-based software video encoding.

# 40 Broadcast Quality 1080p60 Live Streams in 1RU



10 NETINT Codensity™ T408  
2.5" U.2 Video Transcoder's

Dell PowerEdge R640 Server

- High throughput, low latency, multi-stream transcoding server.
- Simple setup using industry standard hardware and open source software tools.
- Typical workloads include live streaming, real-time interactive video applications, cloud gaming, and more.

The NETINT Video Transcoding Server provides low-latency, high-quality, scalable transcoding to meet the requirements of hyperscale cloud platforms and video services.

The NETINT Video Transcoding Server is built on the Dell PowerEdge R640 and features advanced encoding capability enabled by ten NETINT Codensity T408 Video Transcoders. The Codensity T408 is an ASIC-based NVMe video transcoder module that supports H.264 AVC and H.265 HEVC video encoding at up to 8K resolution and with 10-bit HDR.

The high throughput of the NETINT Video Transcoding Server supports ultra low latency encoding of 40 broadcast quality 1080p60 streams in a compact 1RU form factor.



Cloud Gaming



AR / VR



Security



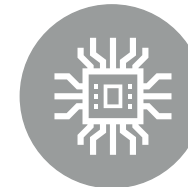
OTT / IPTV



Conferencing



Home Monitoring



AI Acceleration



Live Streaming



Social Mobile Video

# Benefits

## Ultra High Density

Ten times increase in video encoding density as compared to software.

## 8K/4K/UHDTV/HDTV and HDR

Supports a wide variety of streaming applications.

## Low Latency

Enables Interactive video applications including Cloud Mobile Gaming, AR and VR.

## H.264 AVC and H.265 HEVC

Multi-format Transcoding, Encoding, and Decoding.

## Real-Time Encoding

Optimized for live streaming and interactive video applications.

## Scalable

High capacity encoding throughput for rapid deployment of additional channels.

# Total Cost of Ownership

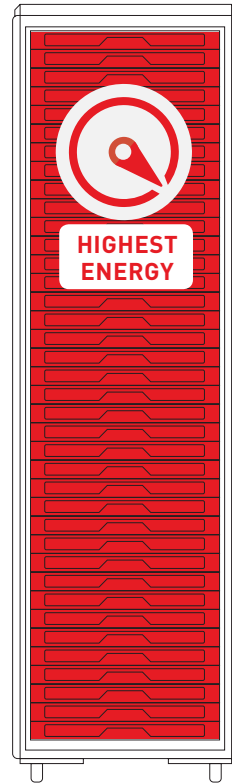
The NETINT Video Transcoding Server enables a reduction in TCO for hyperscale cloud platforms and video service providers.

NETINT's Codensity technology uses a purpose built ASIC to increase encoding density compared to software-based solutions. This increase in encoding density expands the number of channels that can be encoded without increasing the rack footprint. Reduced power and HVAC cost means a lower TCO and higher density can be achieved without sacrificing video quality or latency.

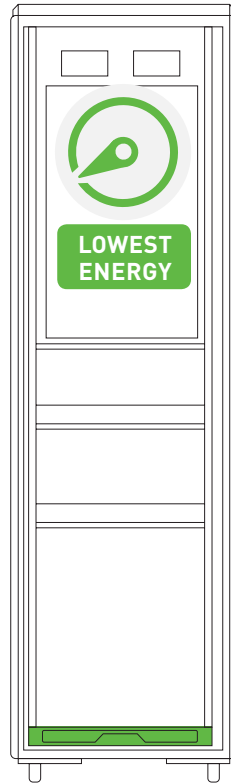
## Video Encoding with Lowest TCO and Highest Density

58W Total Server Power Per Stream

3W Total Server Power Per Stream



HIGHEST ENERGY



LOWEST ENERGY

**\$580,535**

Software on CPU\*

**\$52,403**

NETINT Video Transcoder\*

\*Total Annual Operating Cost Per 1,000 Streams

\$525,000 operational cost savings per year based on 1,000 live streams.

NETINT Video Transcoding Servers use one-tenth the rack space for the same number of streams as compared with CPU-based video encoders.

NETINT Codensity video transcoders use 20X less energy than CPU powered video transcoding systems.

# Simple Integration

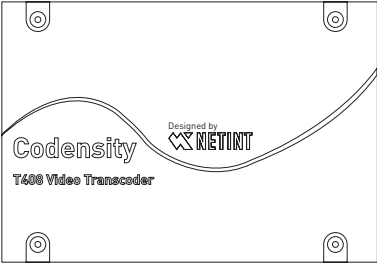
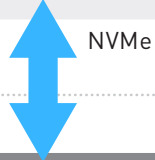
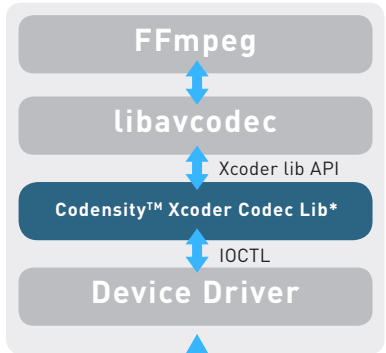
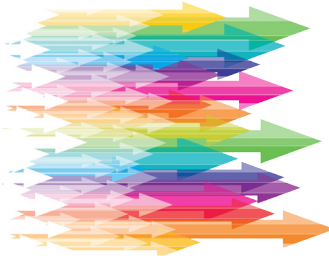
Leveraging FFmpeg, the NETINT Video Transcoding Server provides an open-source suite of video processing tools. Video operators can easily and quickly integrate the NETINT Video Transcoding Server into their existing encoding infrastructure.

## H.264 + H.265 Inputs

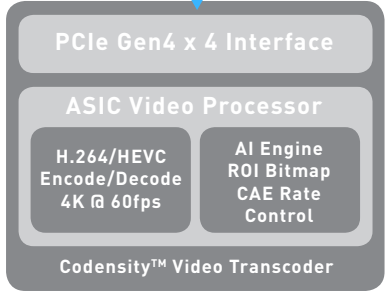
(File or Real-Time)



## H.264 + H.265 Outputs



2.5" U.2 Plug-In Module installed in NVMe Bay



For more information on the  
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