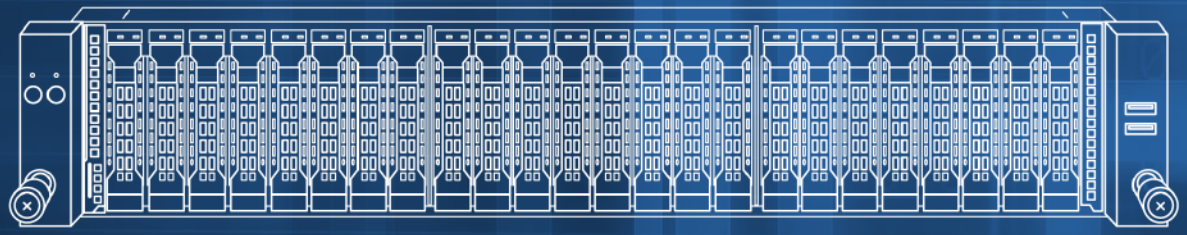
NETINT

PELICAN VIDEO TRANSCODING PLATFORM



Low Latency, Real-Time Video Transcoder

torque VIDEO SYSTEMS

NETINT

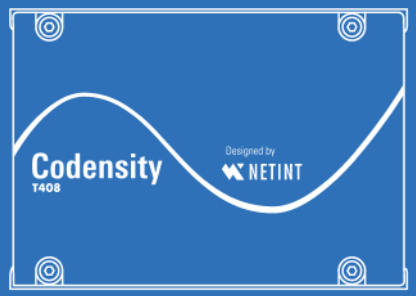
Introduction

With the rapid growth of video streaming, software-based video encoding can no longer economically scale to meet acceptable density, performance, and TCO benchmarks.

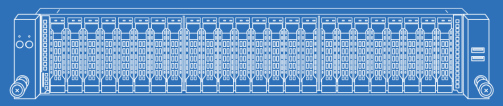
The Pelican Video Transcoding Platform with its scalability and performance is optimized for low-latency, real-time video applications at a TCO that is ten times less than CPU-based software video encoding.

torque
VIDEO SYSTEMS

Up to 96 Broadcast Quality 1080p60 Live Streams in 2RU.



Up to 24 NETINT T408 Video Processing Units



Pelican 2RU Video Transcoding Platform

- High throughput, low latency, multi-stream transcoding platform.
- Simple set up utilizing an integrated and intuitive graphical user interface or REST API
- Typical workloads include, Live Streaming, Surveillance, Live to File Transcoding, and File to File Transcoding.

The Pelican Video Transcoding platform enables low-latency, real-time 4K video transcoding to meet the live streaming requirements of broadcasters, OTT/IPTV platforms and surveillance system operators.The Pelican Video Transcoding platform's advanced encoding capabilities are enabled by the NETINT T408 Video Processing Unit.

The T408 is an ASIC-based video transcoder module that supports H.264 and HEVC video encoding at up to 4K resolution and with 10-bit HDR. The high throughput of the Pelican Video Transcoding Platform supports ultra low latency encoding of 4K live streams in a range of form factors optimized for every operating environment.

Security | OTT / IPTV | Live Streaming | Live to File Transcoding | File to File Transcoding

NETINT

Benefits

High Density Encoding
Ten times increase in video encoding density compared to software.

Ultra Low-Latency Encoding
Enables Interactive video applications.

4K/UHDTV/HDTV and HDR
Supports a wide variety of streaming applications.

Real-Time Encoding
Optimized for live streaming and interactive video applications.

Integrated GUI
Intuitive and easy to use interface for fast set up and configuration of encoding workflows.

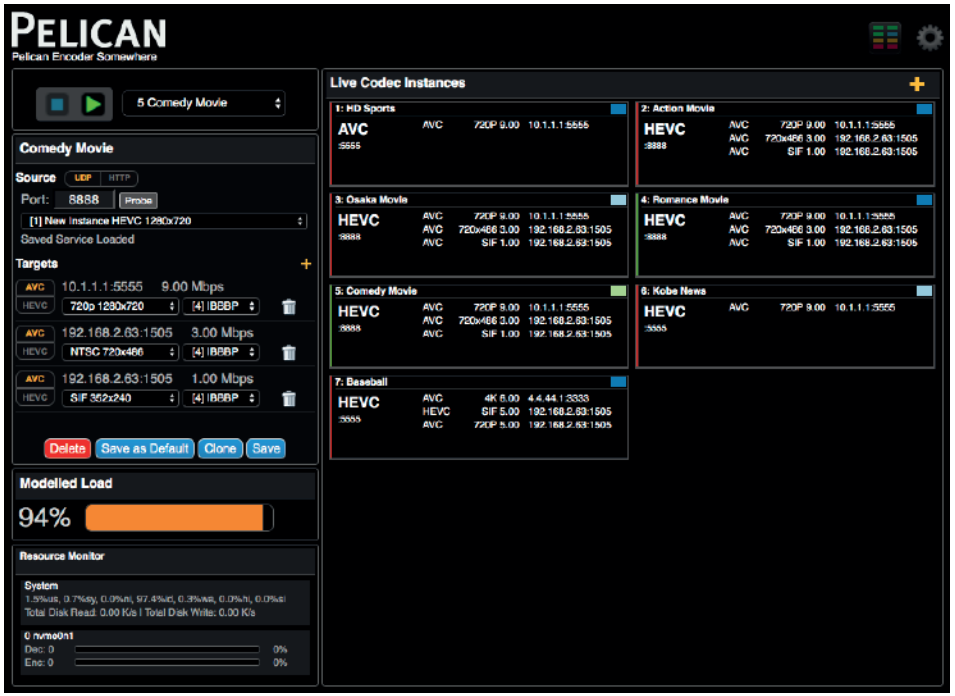
Scalable
High capacity encoding architecture with simple encoding capacity upgrade path.

torque VIDEO SYSTEMS

NETINT

Simple Integration

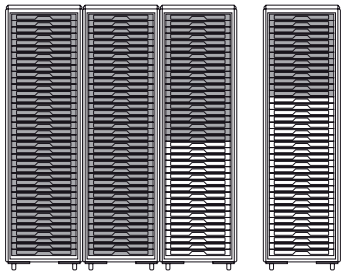
The Pelican Video Transcoding Platform features an easy to use graphical user interface simplifying the configuration of complex video transcoding tasks. In addition, Pelican can also be fully managed remotely via the built-in REST API. Using HTTP commands, key encoder and system parameters can be queried and/or modified, simplifying the integration of Pelican with third party automation or management systems.



torque
VIDEO SYSTEMS

Total Cost of Ownership

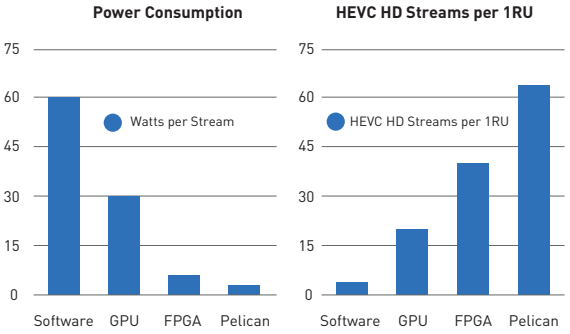
Software Encoders vs. Pelican, 1000 Streams



100 SW encoding servers
60W per stream
$1.1M CAPEX

12 Pelican
3W per stream
$250,000 CAPEX

Video Encoding with Lowest TCO and Highest Density



$1,320,330 operational cost savings per year based on 10,000 live streams. The Pelican Density Video Transcoding Server utilizes one-fortieth the rack space for the same number of streams as compared with CPU-based video encoders. Pelican Density video transcoders use 80X less energy than CPU powered video transcoding systems.

OTT video transcoding workflows are typically accomplished utilizing CPU based software transcoding. Pelican utilizes ASIC powered, NETINT T408 Video Processing Units enabling highly efficient video transcoding workflows. Deploying Pelican in your data center provides a 10:1 reduction in rack space combined with a 95% reduction in operating costs (OPEX).

System	Pelican XS	Pelican	Pelican-24
Transcoder modules	1	1 to 8	1 to 24
Gigabit Ethernet Ingest/Streaming Port	1	1	Multiple
10G Ethernet Streaming Port	NA	option	option
Gigabit Ethernet Management Port	1	1	1
CentOS Enterprise Linux	✔	✔	✔
CPU	1 x Core i7	2 x E5-2620	2 x E5-2620
RAM	8 GB	32 GB	32 GB
Power Supply	Single, built-in	Dual, removable	Dual, removable
Power Consumption	150W	500W	500W
Input Voltage	88 - 250V	100 - 240V	100 - 240V
Operating Temperature Range	10° - 30°C	0° - 40°C	0° - 40°C
Form Factor	1RU Server	1RU Server	2RU Server
Control Interfaces			
HTML5 GUI	✔	✔	✔
REST API	✔	✔	✔

For more information about the Pelican Video Transcoding Platform, contact us at:

ask@torquevideo.tv

www.torquevideo.tv

For more information on NETINT VPU solutions, contact us at:

go@netint.ca

www.netint.ca