

Company Overview

Today's problem crippling live streaming platforms is the accumulation of gross operational expenses when scaling.







🔍 NETINT



Until now.

ASIC Video Processing Units are 100% engineered for only processing video.

Tasking VPUs with the single operation of video processing simplifies and accelerates the workflow by freeing up the CPU to do other video tasks, resulting in massive 10X more throughput at 1/10th the cost. In fact, incorporating VPUs in your video workflow will relieve 9 of 10 servers, enabling them to be re-purposed or decommissioned.

80% less hardware uses 80% less energy.



GPU

85% AI Inferencing

VPU

100%

100% Dedicated to

video processing



CPU

0% Dedicated 100% Shared resources





Industry titans already pivoted into ASICs.

Both Google and Meta built proprietary video transcoding chips to reduce costs, shrink footprint and increase output.

But ONLY for themselves.



"There are two types of companies in the video business.

Those that are using video processing ASICs... and those that will."

David Ronca, Meta Video Encoding Expert, Formerly from Netflix



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1st Gen ASIC	2018	2019	2021
2nd Gen ASIC	2021	2022	-
ASIC with AV1	2021	-	-
ASIC with AI	2021	-	-

For everyone else, we built one for you.

ASIC Smart VPU with AI 2nd Gen Codensity G5

The core of our Codensity technology is an in-house built ASIC. The beauty with ASICs is that it increases encoding density by expanding the number of encodable channels without increasing the rack footprint. This significantly reduces power and HVAC costs without sacrificing video quality or latency. These results cannot be achieve with CPU-based video processing.

Our VPUs are smart because they have on-chip AI. This enables greater acceleration of simultaneous video analysis functions supporting high-density streaming.

N NETINT Codensity G5

all industry firsts!

Why yes, those are

Codensity G5

- 2nd Generation ASIC
- Al on-board @ 18 TOPS
- Encodes: 32 1080p30 streams with AV1, HEVC & H.264
- Decodes VP9, HEVC & H.264
- Up to 8K 10-bit HDR



Leadership of Innovators

We created the category of Smart VPU

in response to limitations of video encoding for streaming delivery platforms that use CPU-based software. Smart VPUs are unique because they're highly dense, extremely cost effective and AI-powered.



Joshua Zhu CEO



Tao Zhong Founder **NETINT** 2024 Winner



Design & Deployment of Efficient Hardware Video Accelerators for Cloud

2015

Company founded to develop next-gen video processing

160+

Senior engineers from top-tier IC chip companies

3 gens

2 chip gens available. 3rd-gen taping out in 2025

Vancouver, HQ R&D Toronto, R&D



NETINT Product Matrix

	VPU Servers		Video Processing Units		
	Quadra	Video Servers	Smart VPU T1U	Smart VPU	Smart VPU
Architecture	AMD - x86	Ampere - ARM			
СРИ	AMD EPYC	Ampere Altra Max			
Server - 1RU	Supermicro 1114S-WN10RT	Supermicro Mega DC ARS-110M-NR			
ASIC Codensity chip	10x G5 (T1Us)		G5	G5	2x G5
Form Factor	1RU		U.2	AIC, HHHL	AIC, HHHL
Power Consumption	~500W		17W	20W	40W
Real-time Throughput Up to:	320x 1080p30 80x 4Kp30 20x 8Kp30		32x 1080p30 8x 4Kp30 2x 8Kp30		64x 1080p30 16x 4Kp30 4x 8Kp30
Video Formats and Codecs Features	Encode: H.264, HEVC, AV1, JPEG, HEIF, AVIF Decode: H.264, HEVC, VP9, JPEG Audio: MP3, AAC-LC, HE-AAC				
Artificial Intelligence	150 TOPS		15 TOPS	18 TOPS	36 TOPS
Capped Bitrate - CRF	•		•	•	•
Scale/Crop/Pad/ Overlay/Color Conversion	•		•	•	•



User Stories

api.video

VPUs enable FREE transcoding!

This NETINT VPU conversion dropped their internal cost of transcoding to \$.0002 /min resulting in FREE transcoding to their customers.

> Live streaming and VOD provider



Mayflower

-\$8.6 Mil cost cut first year with ASICs

Forced to eliminate astronomical hosting costs, Mayflower converted software encoding to NETINT VPUs, and found immediate High-CAPEX relief. volume, user

generated CDN



Zapping

The live streaming "Netflix" of LATAM

NETINT VPUs enabled Zapping to cut their hardware footprint more than 50% while upgrading operational reliability and video quality for live sports and linear channels across LATAM.

> Live streaming CDN provider in LATAM







Smart VPUs are engineered for high-volume, live video streaming and interactive applications.

> We want to hear what you're building. Allow us to share our industry insights to improve your outcome.

> > sales@netint.com netint.com