

# REBOTNIX

INDUSTRIAL SOLUTIONS

# GUSTAV MEDIA

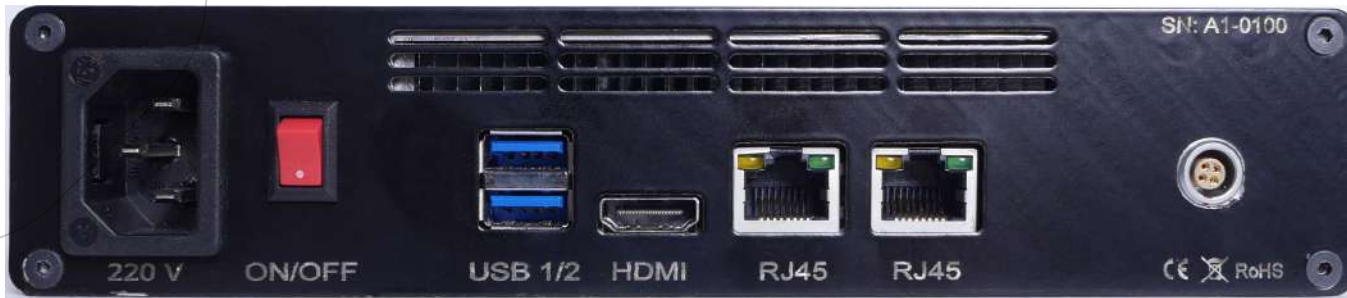
BUILD TO RUN IN YOUR NETWORK INFRASTRUCTURE



# GUSTAV MEDIA

EDGE DEVICE / SKU: RB-MEDIA

POWER



## Features

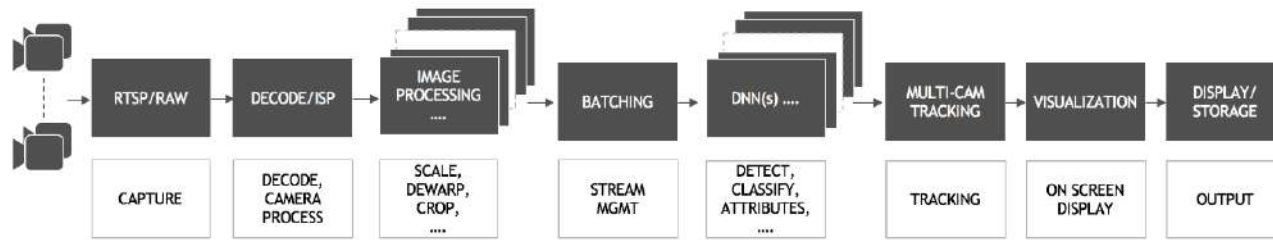
- NVIDIA® Jetson AGX Xavier™ SOM
- ARM64 CPU & NVIDIA Volta 512 & 64 Tensor (Cores)
- 32 (AGX) gigabytes of RAM
- 2 x USB 3.x connectors
- Lemo 12-24 volts input
- HDMI 2.0
- 2 x RJ-45 Ethernet (both gigabit)
- 250 GB SSD (M2) included
- Half rack of a 19' unit
- Active cooling
- W: 42mm H:43.5mm D:220mm
- Lifetime January 2025

## Optional

- 500 GB – 2 TB SSD (internal)
- Internal Mobile Network Modem
- 100% Driver jetpack support (without patch)

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# EXAMPLE - VIDEO ANALYTICS



Typical application: 30+ TOPS



# JETSON AGX XAVIER

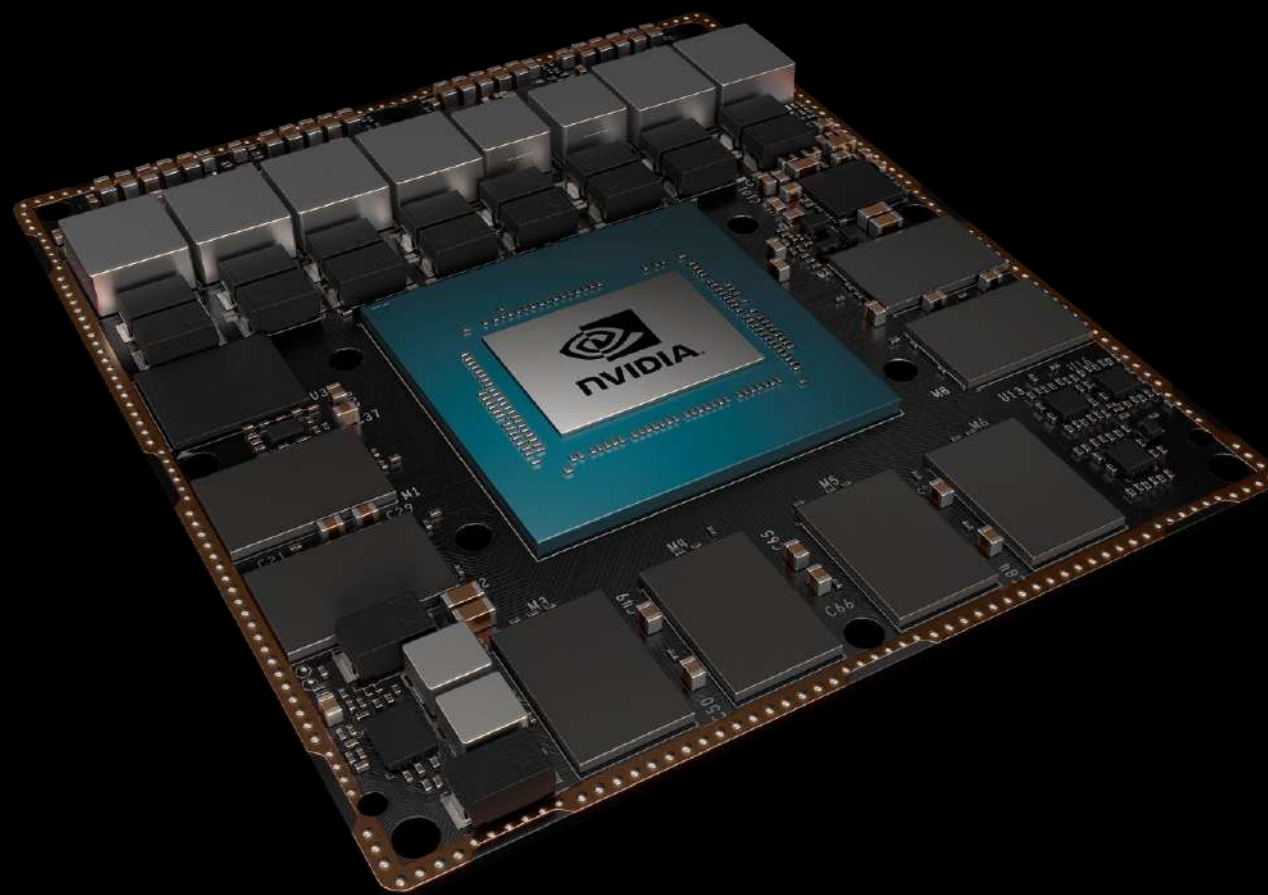
World's first AI computer for  
Autonomous Machines

AI Server Performance in 30W • 15W • 10W

512 Volta CUDA Cores • 2x NVDLA

8 core CPU

32 DL TOPS





# JETSON AGX XAVIER

## Compute Module

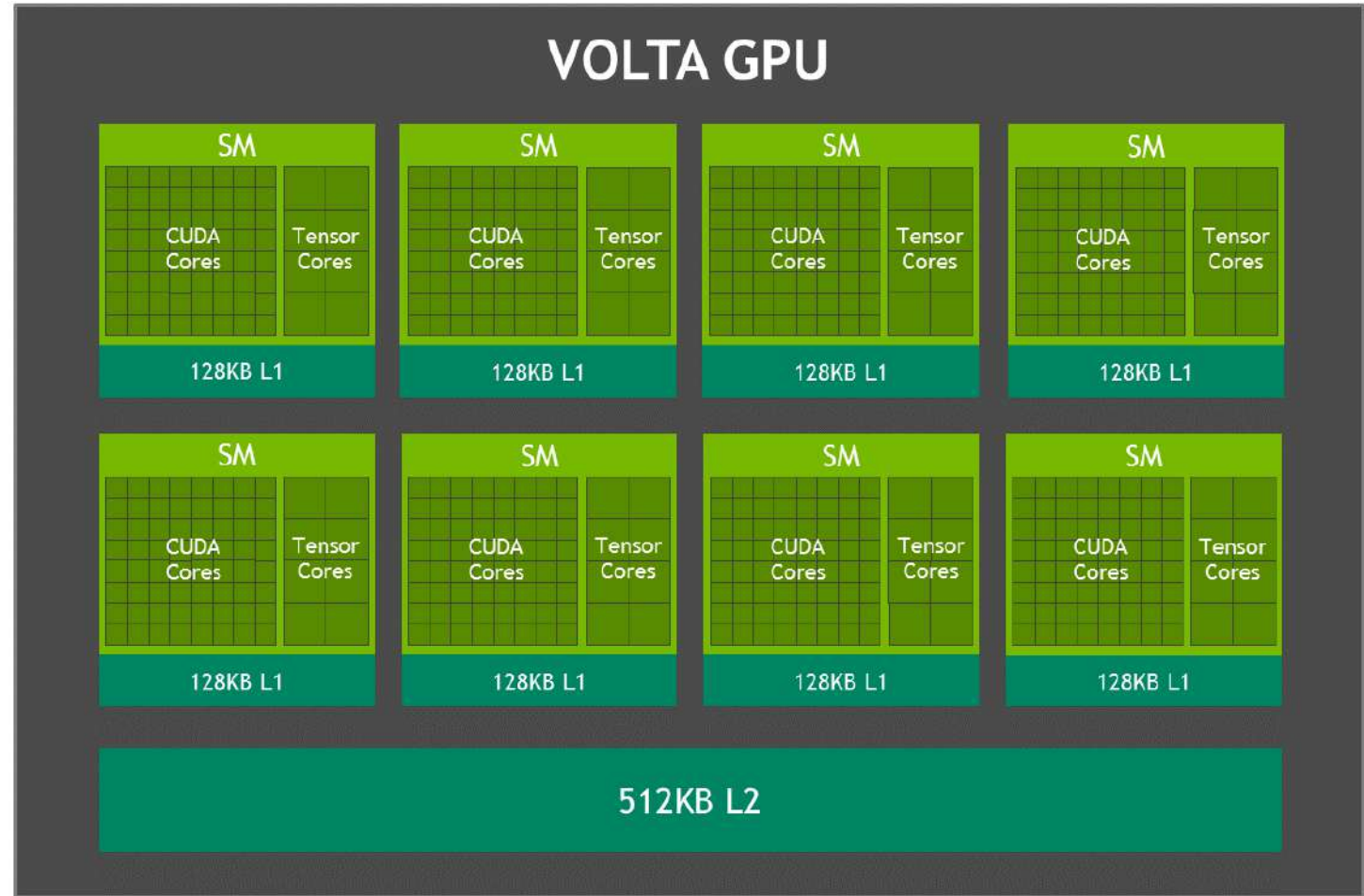
	JETSON TX2	JETSON AGX XAVIER
<b>GPU</b>	256 Core Pascal @ 1.3GHz	512 Core Volta @ 1.37GHz 64 Tensor Cores
<b>DL Accelerator</b>	-	(2x) NVDLA
<b>Vision Accelerator</b>	-	(2x) 7-way VLIW Processor
<b>CPU</b>	6 core Denver and A57 @ 2GHz (2x) 2MB L2	8 core Carmel ARM CPU @ 2.26GHz (4x) 2MB L2 + 4MB L3
<b>Memory</b>	8GB 128 bit LPDDR4 58.4 GB/s	16GB 256-bit LPDDR4x @ 2133MHz 137 GB/s
<b>Storage</b>	32GB eMMC	32GB eMMC
<b>Video Encode</b>	(2x) 4K @30 HEVC	(4x) 4Kp60 / (8x) 4Kp30 HEVC
<b>Video Decode</b>	(2x) 4K @30 12 bit support	(2x) 8Kp30 / (6x) 4Kp60 12 bit support
<b>Camera</b>	12 lanes MIPI CSI-2 D-PHY 1.2 30Gbps	16 lanes MIPI CSI-2   8 lanes SLVS-EC D-PHY 40Gbps / C-PHY 109Gbps
<b>PCI Express</b>	5 lanes PCIe Gen 2 1x4 + 1x1   2x1 + 1x4	16 lanes PCIe Gen 4 1x8 + 1x4 + 1x2 + 2x1
<b>Mechanical</b>	50mm x 87mm 400 pin connector	100mm x 87mm 699 pin connector
<b>Power</b>	7.5W / 15W	10W / 15W / 30W



# VOLTA GPU

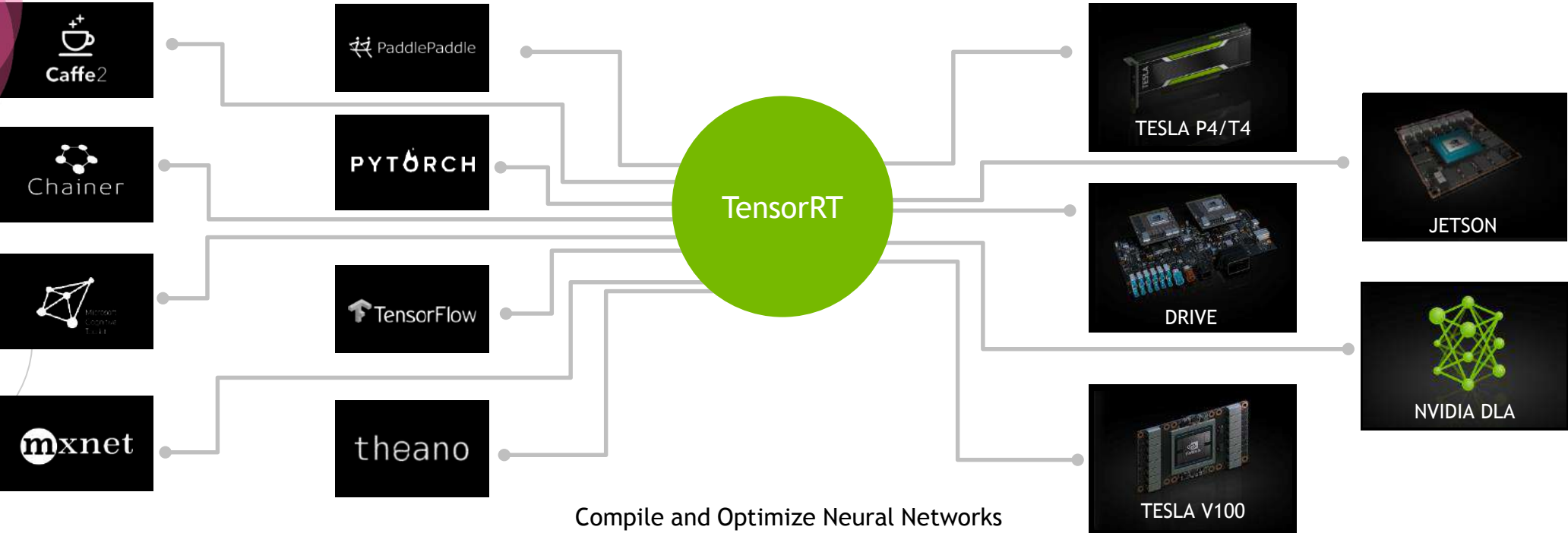
Optimized for Inference

- 8x Volta SM @ 1377MHz
- 512 CUDA cores, 64 Tensor Cores
- 22 TOPS INT8, 11 TFLOPS FP16
- 8x larger L1 cache size
- 4x faster L2 cache access
- 4 scheduler partitions per SM
- CUDA compute capability 7.2



# NVIDIA TensorRT

## Production Inferencing



Compile and Optimize Neural Networks  
Support for Every Framework  
Optimize for Each Target Platform



# Our Models

PRODUCTION-READY MODELS PRE-TRAINED WITH MILLIONS OF CUSTOM DATASETS

## Object Tracking & Segmentation



## Anonymized Person and Face Detection



Connect any IP camera for traffic control



## Fire detection & weapon from any camera



# Solutions

PRODUCTION-READY MODELS PRE-TRAINED WITH MILLIONS OF CUSTOM DATASETS



PRIVACY FOR EVERY FACE OR PERSON



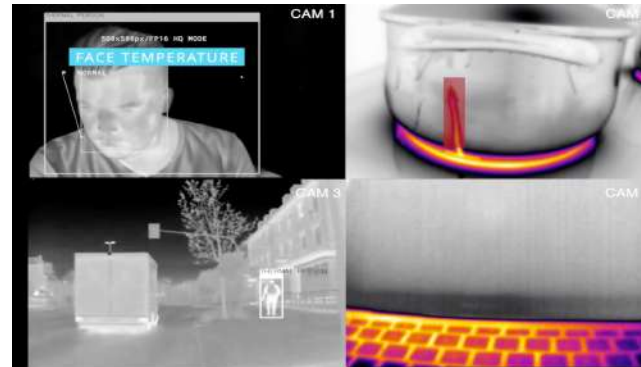
DETECT EVERY LICENSEPLATE



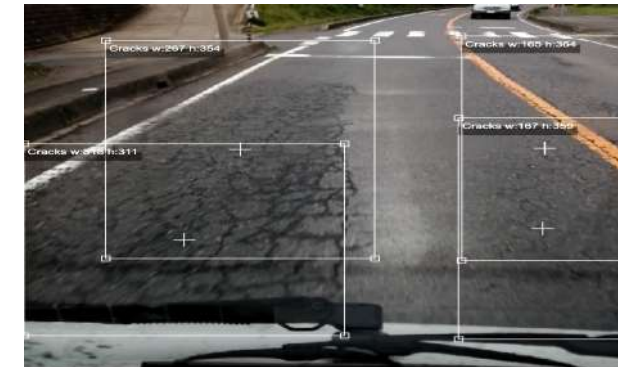
INTELLIGENT FIRE DETECTION



RECOGNIZES THE USE OF WEAPON



DETECT OBJECTS BY NIGHT



SMART CITY / ROAD CONDITION





# Solutions



Industrial



Aerospace/Defense



Healthcare



Construction



Agriculture



Smart City



Retail



Logistics



Inventory Mgmt



Delivery



Inspection



Service

# IP-based applications

## Video Transcoding & Transmuxing

AVC<->HEVC up 4K x 2K 60 Hz

Protocol Conversation

RTMP, SRT, HTTP (s), RTSP



## Video Decoders

H.265 Video Decoder

H.264 Video Decoder

MPEG4 Video Decoder

VP8 Video Decoder

VP9 Video Decoder

JPEG Decoder

## Video Encoders

H.264 / AVC Video Encoder

H.265 / HEVC Video Encoder

VP9 Video Encoder

JPEG Encoder

## Video Filters

Rotation

Scaling

Artificial Image Processing (CUDA)

## Encryption and Decryption

AES -128 CBC



# Use scenarios

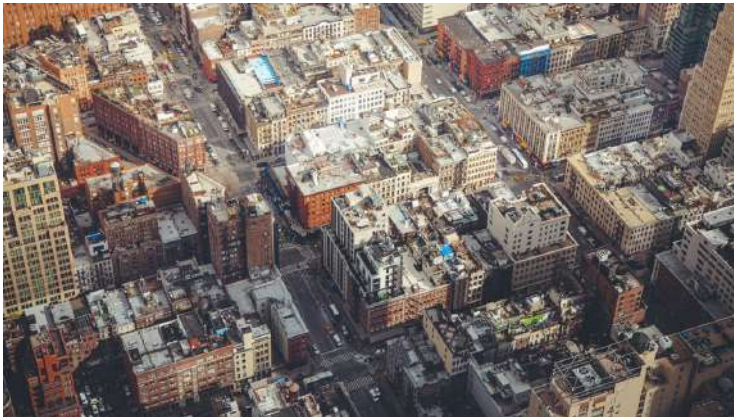
OUR READY TO GO PLATFORMS, BASED ON OUR SOFT- AND HARDWARE TECHNOLOGY



**MONITORING & AUTOMATION OF INDUSTRIAL PLANTS**



**WE CONVERT VEHICLES TO DATA SUPPLIERS**



**WE CONVERT CAMERAS TO SENSORS**



**WE CONNECT NETWORKS THROUGH FAST META DATA TRANSFER**





**REBOTNIX**  
**INDUSTRIAL SOLUTIONS**

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