

ACTIONABLE BUSINESS INSIGHTS FROM STREAMING DATA

On the best-in-class real-time analytics platform with AI+ acceleration using FPGAs from edge to cloud

Megh Video Analytics Solution enables system integrators (SI) and independent software vendors (ISV) to:

- Target end users in retail, manufacturing, logistics, security, and other segments
- Deliver best performance efficiencies, with >2x reduction in TCO
- Support end-to-end reference applications, including analytics and visualization
- Take advantage of the highest-performing deep learning engine for object detection and image classification, delivering up to 10x the performance of GPUs




ENHANCE PUBLIC SAFETY
Social distancing, body temperature, PPE compliance



CONTROL ACCESS
Access control systems with smart surveillance


MANAGE INVENTORY
Decrease inventory distorting due to misplacement



PREVENT FRAUD
Prevent loss from mis-scans and theft

VALUE PROPOSITION


Highest performing

-  • FPGAs: 5x greater average throughput than GPUs for best price/channel
- Lowest deterministic latency processing to support real-time use cases


Most flexible

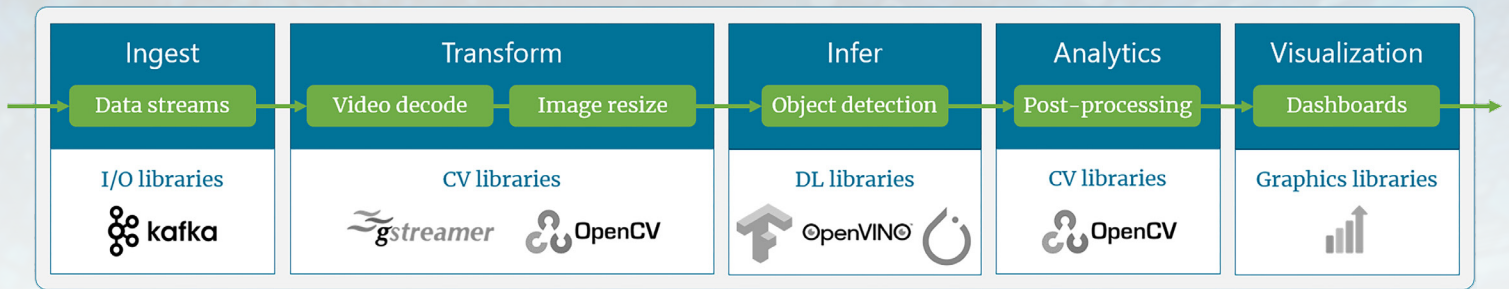
-  • Different deployment options for edge-to-cloud configurations
- Standalone or integrated with VMS systems for advanced features

Most scalable

-  • Scale-up to scale-out configuration for small to large systems
- Easily deployable deep learning models support simple to complex cases

Best vendor choice

-  • OEM platforms (Dell, HPE, Lenovo, IBM)
- FPGAs (Intel, Xilinx)
- Cloud hosts (AWS, Azure)



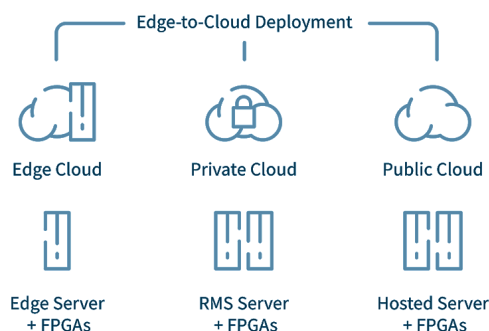
Complete video analytics pipeline implemented using distributed software framework

OVERVIEW

- Heterogeneous CPU+FPGA platform for accelerating stages of the pipeline
- Pipeline stages implemented as services that can be containerized
- Stages can be mapped from on-premise edge gateways/servers to cloud-hosted platforms
- Can be deployed as stand-alone system or behind existing VMS systems

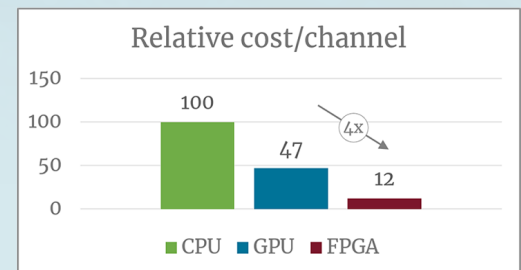
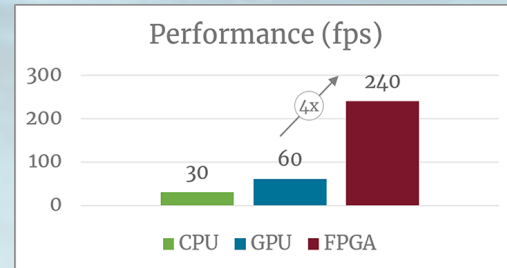
FEATURES

- Ingestion: Multiple channels of 1080p/30 fps
- Transformation: H.264 decoding and image resizing for all channels
- Inference: Object detection and classification on each channel using Deep Learning Engine
- Analytics: To support post processing for wide range of use cases
- Visualization: For configurable dashboards and mobile notifications

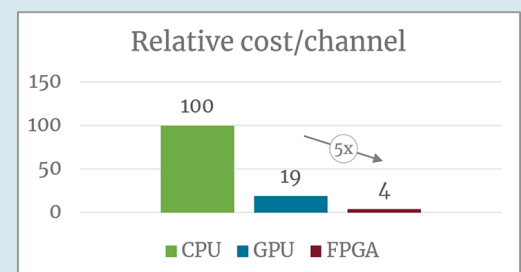
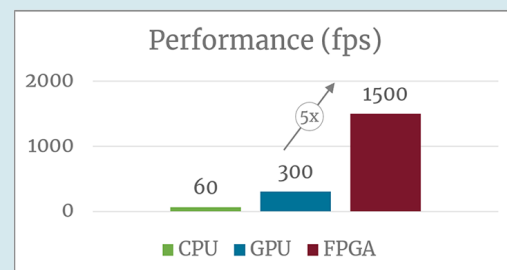


Deployment options

Benefits of FPGA solution over GPUs



High accuracy/high-density application



Lower accuracy/lower-density application

LEARN MORE

Megh Computing is enabling the third wave of computing in the data center with scale-up and scale-out FPGA-based accelerators.

We're delivering a platform that accelerates real-time video analytics using FPGA accelerators in the public, private, and edge cloud.

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