

METIS PCIe EVAL SYSTEM

with Dell 3460XE Workstation



METIS EUROPE



Security



Industry 4.0



Retail



Mobility



Logistics



Robotics



Medical



Hospitality



Utilities



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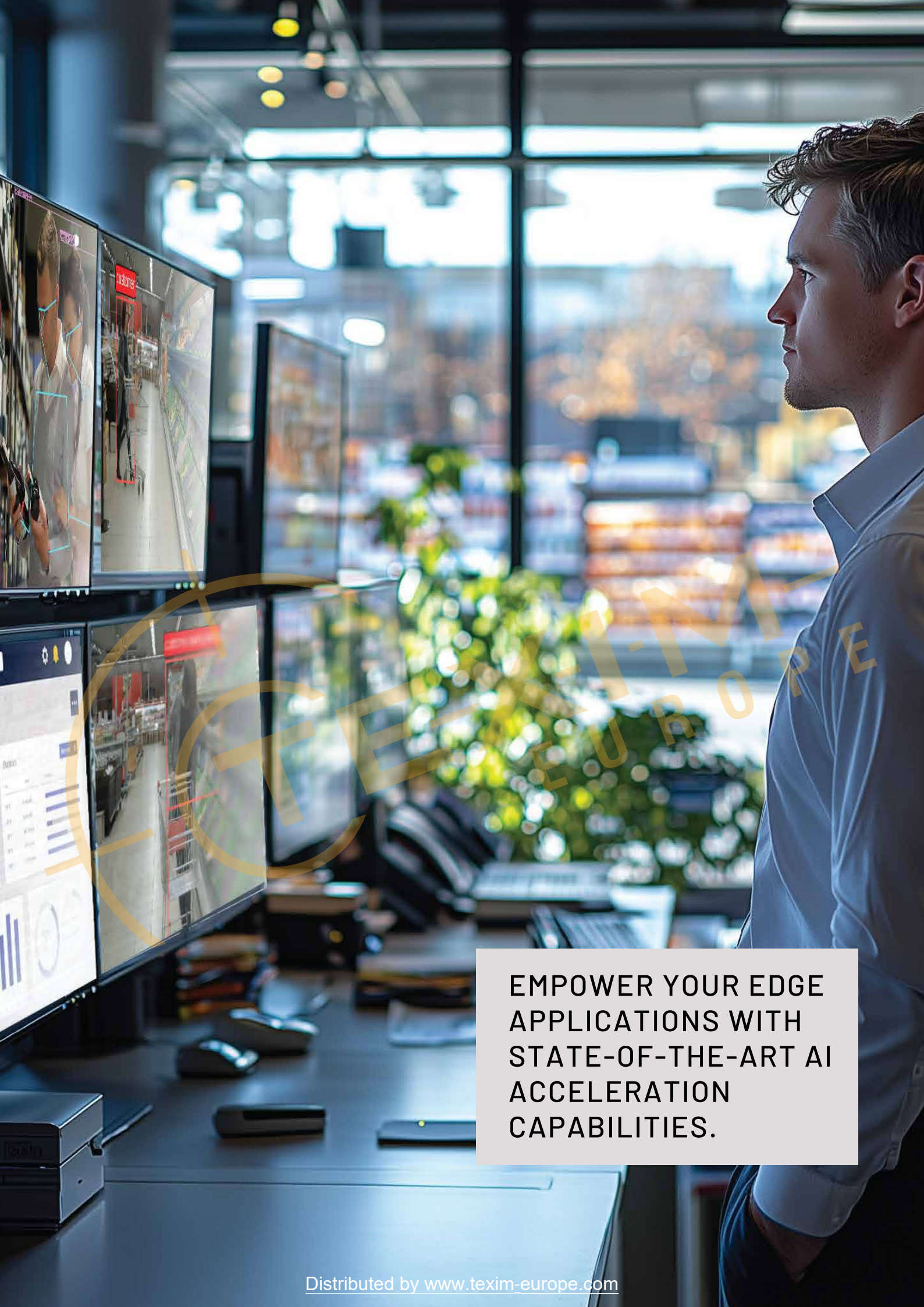
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EMPOWER YOUR EDGE
APPLICATIONS WITH
STATE-OF-THE-ART AI
ACCELERATION
CAPABILITIES.

KEY FEATURES

- Supported by Dell Precision 3460XE, a high-performance workstation with multiple expansion and connectivity interfaces.
- Inference at the Edge powered by Metis AIPU delivering 214 TOPS/s with industry-leading energy-efficiency.
- Everything you need to get started in a single box pre-integrated Metis PCIe card and pre-installed Voyager SDK.
- **A simplified Edge AI inference** - run a preloaded neural network in under ten minutes and leverage industry-standard API combined with built-in evaluation tools.
- A growing Model Zoo with a **broad coverage** of computer vision networks for object detection, image classification, pose estimation and segmentation.

KEY TECHNICAL SPECIFICATIONS

Metis	1x Metis PCIe Card with 4 GB memory
Processor	Intel Core i7 13700
Memory	2x 32 GB DDR5 5200 MT/s, SO-DIMM, non-ECC
Storage	M.2 512 GB
Operating System	Linux Ubuntu 22.04
PCIe	Half-height Gen 3 PCIe x4 slot (Metis AIPU PCIe card)

For more information, please visit or scan the QR code:
<https://www.dell.com/support/home/en-ca/product-support/product/>



PROVEN IN KEY MARKETS

Companies in multiple market segments have already adopted Metis PCIe-based AI acceleration for different applications such as:



Security: reducing the time to detect and resolve incidents (abandoned baggage, intrusion, fall) thanks to high resolution, high throughput processing of tens of camera feeds.



Industry 4.0: improve accuracy and speed in defect detection and quality control. Increase worker safety with automated PPE control.



Retail: improve operational efficiency and customer experience with in-store customer behavior, stock monitoring and automated checkout systems.



Mobility: real time vehicle detection, identification and tracking from multiple traffic cameras to enhance tolling, enforcement and parking management.



Logistics: monitor the movement of goods and personnel to improve operational efficiency and safety of logistic centers by improving resource allocation and detecting safety hazards.

EASY TO INTEGRATE

Axelera AI's Metis technology integrates seamlessly with host CPUs based on both x86 and ARM architectures. Our team actively tests different systems from vendors such as Dell, Lenovo, Advantech, and Aetina.

VOYAGER.SDK

Thanks to Voyager Software Development Kit (SDK), users have a simple software integration path for AI inference at the edge:

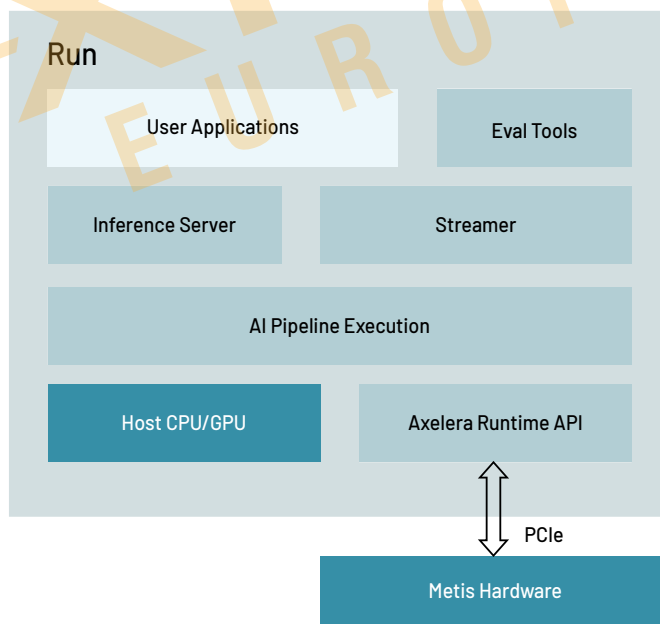
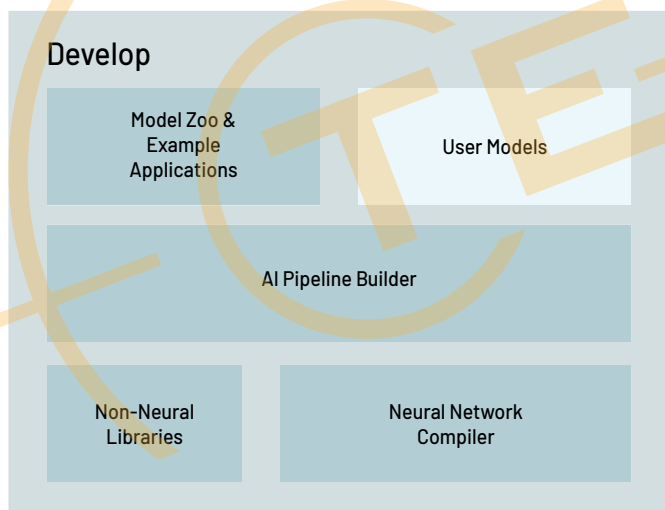
- **Great out-of-the-box experience:** The SDK's built-in tools and models allows evaluating Metis performance, accuracy and power consumption in a few minutes.
- **Fast end-to-end integration path:** The SDK provides a high-level pipeline description framework that allows building optimized end-to-end AI applications with custom inputs, datasets, models and business logic with very few lines of code.
- **Low-level knobs and APIs:** For users that have their own pipelines and software infrastructure, the SDK includes low-level APIs to directly control the inference hardware.

Voyager is a simple yet feature rich SDK:

- Large Model Zoo supporting, among others:
 - Image classification (ResNet-50, SqueezeNet 1.0/1.1, MobileNetv2)
 - Object detection (SSD-MobileNet v1/v2, Yolo v3/v5/v7/v8, YoloX)
 - Pose Estimation - Yolov8-pose
 - Segmentation - Yolov8-seg
- Compiler support for models from Pytorch and ONNX. The compiler automatically manages quantization and graph optimization without user intervention and achieves optimal performance and accuracy.



- Libraries including all pre- and post-processing required to run end-to-end pipelines: scaling; cropping; normalization; format conversion; non-maximal suppression (NMS) and more.
- A YAML description file is used to automatically generate the AI pipelines. The pipeline can then be run as a plugin to GStreamer or within an inference server.
- Built-in tools to test accuracy and performance of models running on Metis AIPU.



SCAN ME

Ordering information

To order the Metis PCIe Eval System with Dell 3460XE workstation, please visit: www.axelera.ai/metis-evaluation-kit

Part Number: AXE-SAADE010

Description: Dell PRECISION 3460XE using 1x Metis Omega chip PCIe card with 4 GB of memory. Rev1



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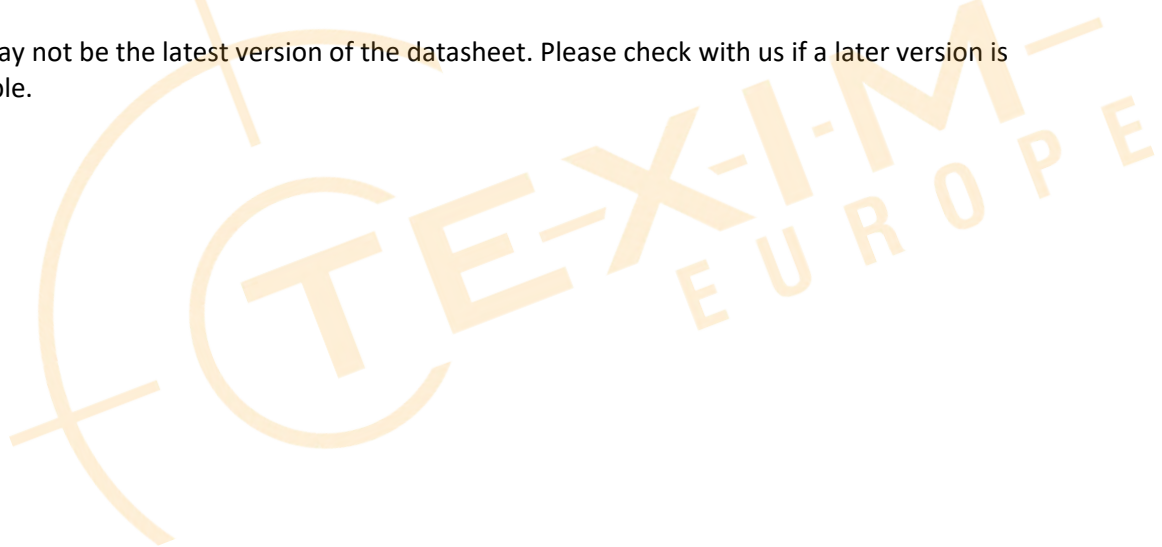
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Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time.

All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.

Please contact us if you have any questions about the contents of the datasheet.

This may not be the latest version of the datasheet. Please check with us if a later version is available.





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