

DELL XE5 PRO SLIM PLUS

with Axeleria Edge 130p



NEETIS



Security



Industry 4.0



Retail



Mobility



Logistics



Robotics



Medical



Hospitality



Utilities

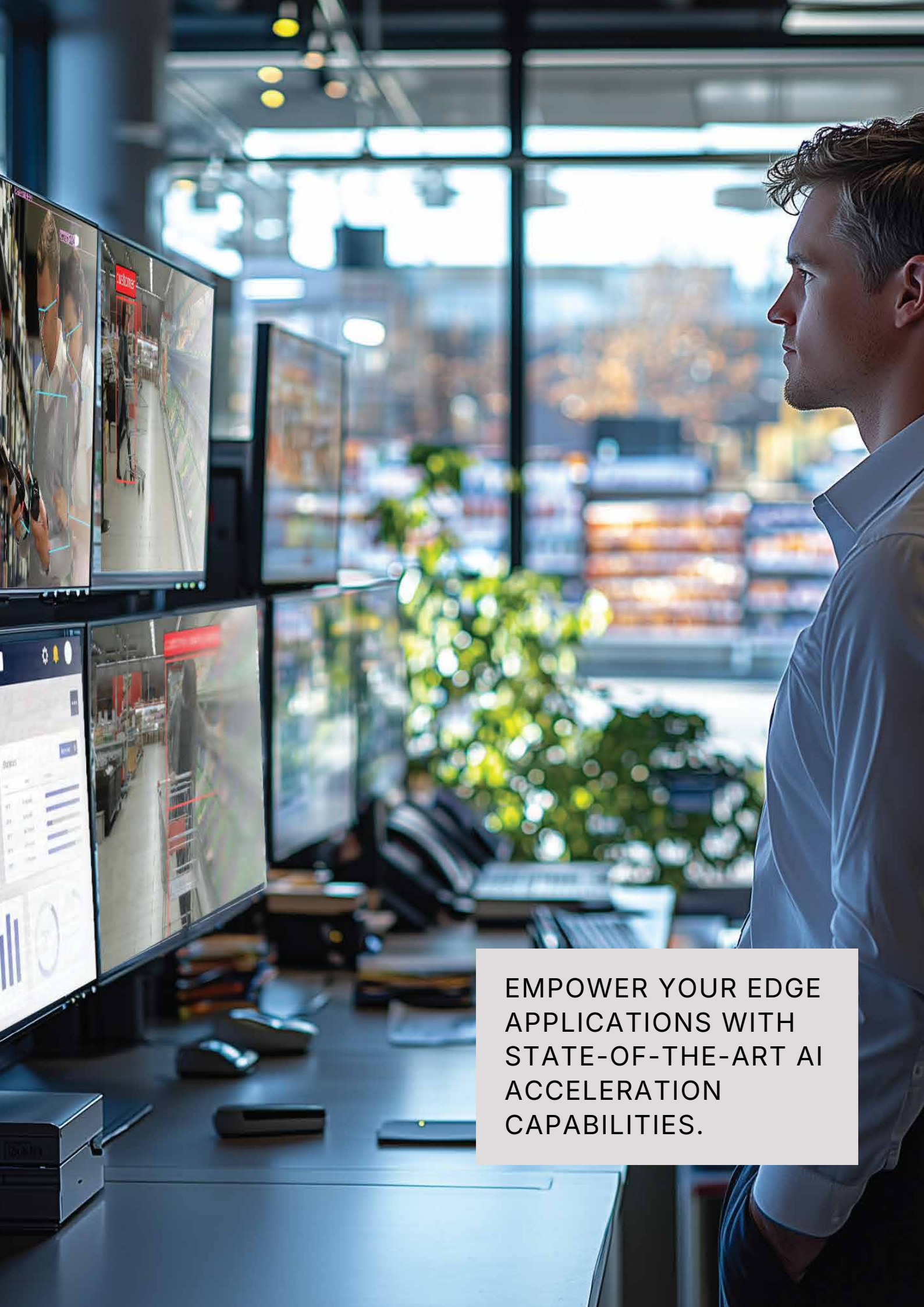


Agritech



AXELERA[®]
ARTIFICIAL INTELLIGENCE

DELL
Technologies



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

KEY FEATURES

- **Extreme-Temp Ready:** Reliable AI inference at 45°C in warehouses and factories where GPU-based solutions fail.
- **Lower TCO vs. Discrete GPU:** No discrete NVIDIA card needed. Lower power, BOM cost, and cooling without sacrificing inference performance.
- **Performance Results:** 2x Perf/\$, 9x Perf/W, and 16 streams vs 10 on standard GPU @1080p/25FPS.
- **Voyager SDK:** Purpose-built for edge inference with intelligent quantization, 4K/8K support, and YOLO at launch.

KEY TECHNICAL SPECIFICATIONS

Metis	1x Axelera Edge 130p with 16 GB memory
Processor	Intel® Core™ Ultra 7 265 (13 TOPS NPU, 20 cores, up to 5.3GHz)
Memory	32GB: 2 x 16GB, DDR5, up to 5600 MT/s
Storage	512GB SSD TLC
Operating System	Linux Ubuntu 24.04
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/product-details/en-us/product/dell-pro-qbs1250-xe5-plus-slim-desktop/overview>



PROVEN IN KEY MARKETS

Companies in multiple market segments have already adopted Axelera Edge-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.



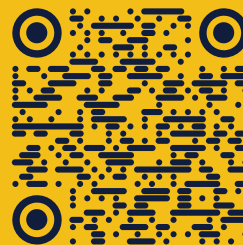
Mobility: real time vehicle detection, identification and tracking from multiple traffic cameras to enhance tolling, enforcement and parking management.



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.

PERFORMANCE BENCHMARKS

See how Axelera Edge 130p Card compares against other AI accelerators across real-world neural networks. Scan to view the latest results.



<https://axelera.ai/axelera-products/edge#130p>

EASY TO INTEGRATE

Axelera® technology integrates seamlessly with host CPUs based on both x86 and ARM architectures. Our team actively tests different systems from vendors making it easy for embedded developers to prototype AI applications.

VOYAGER.SDK

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

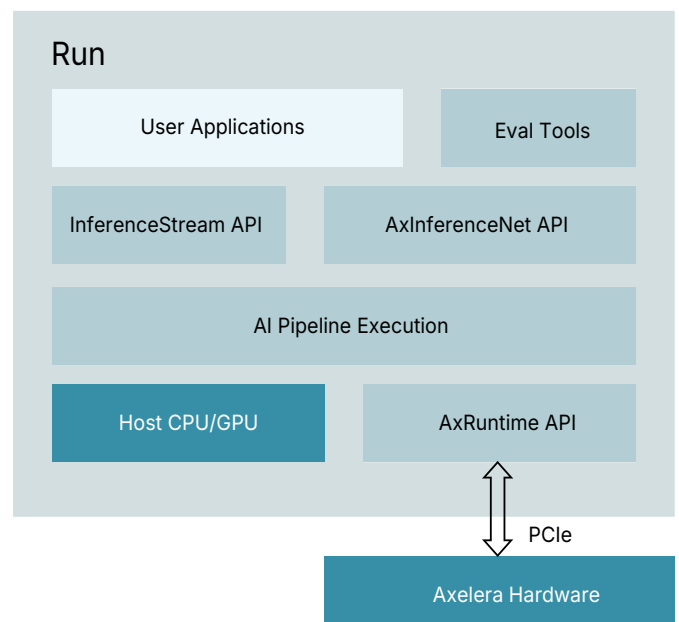
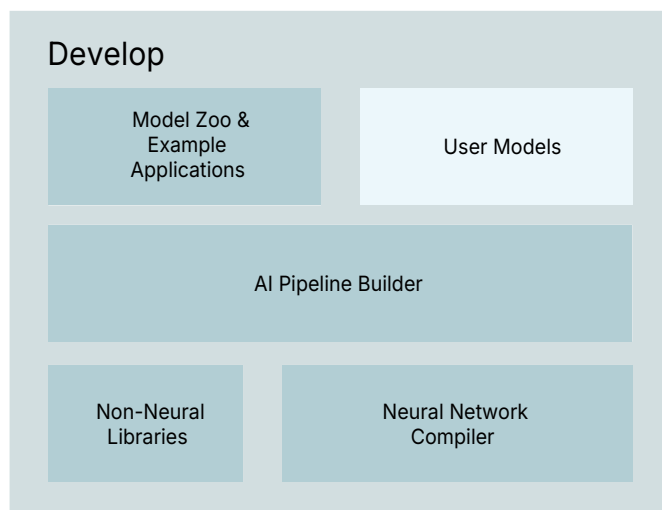
- **Great out-of-the-box experience:** The SDK's built-in tools and models allows evaluating Axelera performance, accuracy and power consumption in a few minutes.
- **Fast end-to-end integration path:** The SDK provides a high-level pipeline description framework that allows building optimized end-to-end 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:
 - Small Language Models (Phi3-mini, Llama-3.1 8B etc.)
 - Image Classification (EfficientNet, ResNet etc.)
 - Object Detection (YOLO models, RetinaFace etc.)
 - Semantic Segmentation (U-Net FCN)
 - Instance Segmentation (YOLO models)
 - Keypoint Detection (YOLO models)
- 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 Dell XE5 Pro Slim Plus with Axelera Edge 130p, please visit: store.axelera.ai/products

Description: Dell XE5 Pro Slim Plus with Axelera Edge 130p. Rev 1.0.

