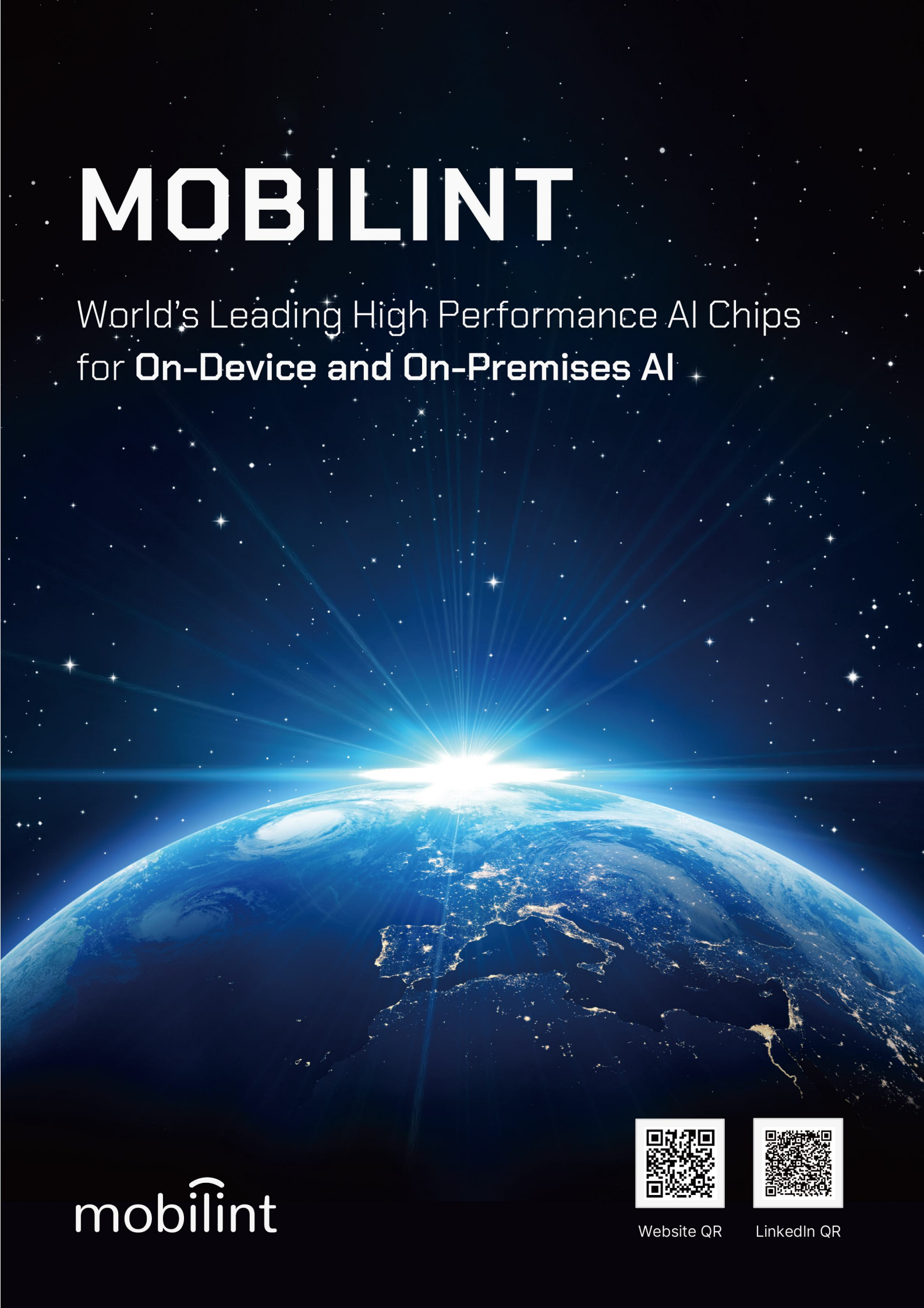
MOBILINT
World's Leading High Performance AI Chips
for On-Device and On-Premises AI
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Mobilint AI Chips :

Powering On-Device and On-Premises AI

AI Accelerator Chip

Mobilint ARIES

It is an NPU specialized for AI inference operations, with a high AI computing performance of up to 80 TOPS. This chip has a very fast computing speed thanks to its architecture consisting of efficient deep learning computing modules, and its custom NPU compiler. It also has a high power-efficiency by maximizing data reuse and minimizing memory access. If you have been having problems with AI performance so far, you no longer need to worry about it.

ARIES Specifications

Performance	80 TOPS
Host Interface	PCIe Gen 4.0 8-lane
Memory Capacity	16 GB (Optional 32 GB) LPDDR4, 4X
Memory Bandwidth	66.7 GB/s
Power (TDP)	25 W
AI Performance YOLOv9-E, Batch 8	400 FPS
AI Performance YOLOv8-S, Batch 8	1,500 FPS
AI Performance ResNet-50, Batch 8	4,200 FPS
AI Performance MobileNetV2, Batch 8	16,500 FPS

ARIES-Based Products

MLA100
NPU PCIe Card

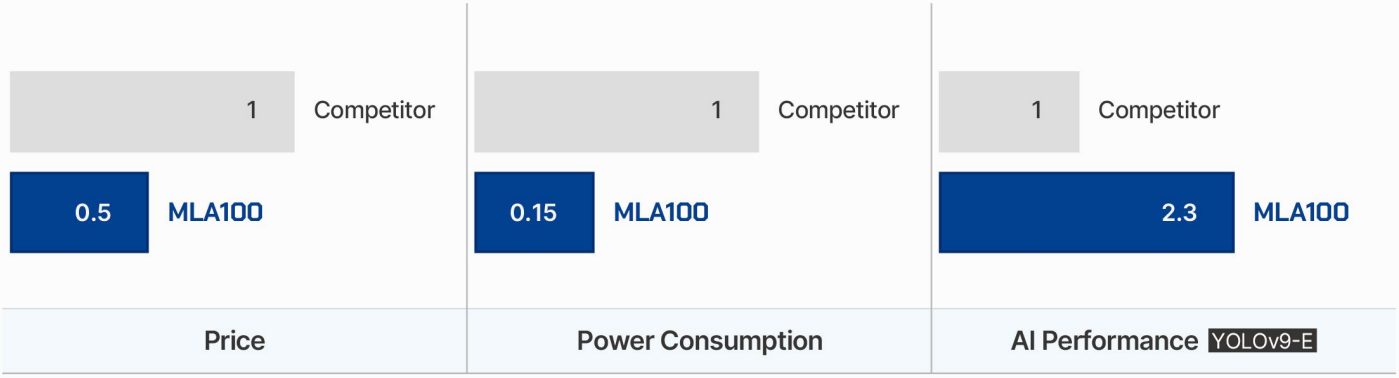
MLA100 is a high-performance NPU PCIe card that can be easily installed and used in the PCIe slot of a PC or a server.

MLX-A1
Standalone AI Box

MLX-A1 is a standalone edge AI box that operates independently without relying on a PC or a server.

Contact us : contact@mobilint.com

the Smartest Choice for AI Inference in Edge



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AI SoC for On-Device AI

Mobilint REGULUS

World's Best AI SoC for On-Device AI

REGULUS, the world's most efficient AI SoC, empowers your devices with unparalleled on-device inference capabilities. Leveraging its advanced AI engine and high-performance CPU, REGULUS enables your devices to execute complex inference tasks with unrivaled efficiency and cost-effectiveness. Break free from cloud dependencies and unlock the full potential of your robotic, drone, and AI camera applications with REGULUS's ability to process high-resolution images with minimal latency and maximum accuracy.

Seamlessly Processses 4K 60FPS Video

Powered by an advanced AI engine and state-of-the-art ISP, REGULUS delivers world-class image processing capabilities. Leveraging High Dynamic Range (HDR), REGULUS ensures accurate image processing even in low-light conditions. REGULUS preserves critical details while effectively eliminating noise with 3D Noise Reduction (3DNR), enabling precise AI functionality. Coupled with multi-standard video codec support, REGULUS empowers your devices to effortlessly handle high-resolution, high-framerate video processing, redefining the boundaries of visual AI.

REGULUS Specifications

NPU	10 TOPS
CPU	Quad-core ARM Cortex A53, ARM Cortex M0+
Memory	Up to 8 GB (DDR4, LPDDR4, 4X)
Memory Speed	4266MHz (x32)
Power	3 W
Data Interface	USB 3.1, Ethernet, MIPI, UART, QSPI, and Others
Size	17 × 17mm
Temperature	-40 °C to 85 °C
Storage	SD, SDIO, eMMC 5.1
Image Processing	ISP (8M @ 60FPS), Dual DVP
Video Codec	MJPEG, H.265/4, Encoder & Decoder (4K @ 60FPS)

Key Features

Cost Effective

Most cost-effective options for engineers prioritizing high price-performance ratio

High Accuracy

World-leading lightweight technology maintains 99.9 % accuracy of existing models

Programmable

Supports more than 200 deep learning models, including SOTA models, with excellent performance

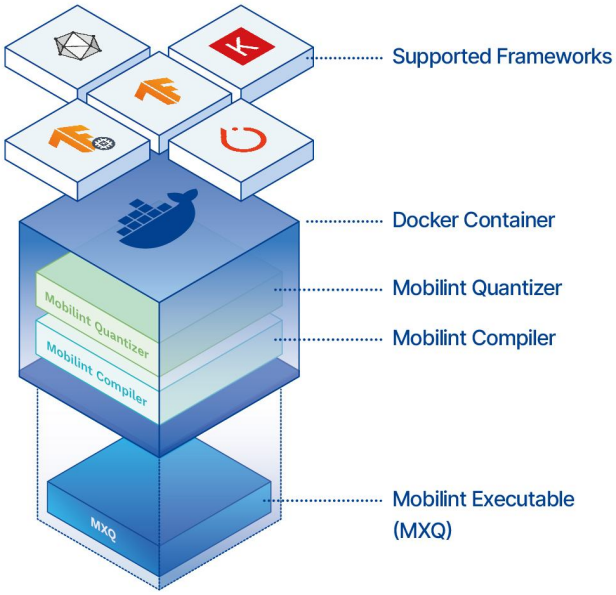
Easy to Use

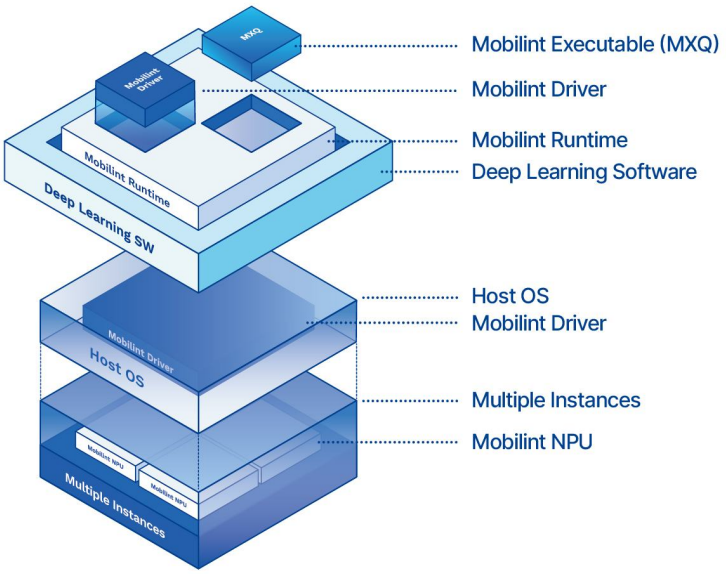
User-friendly full-Stack SDK that supports major ML frameworks including Tensorflow, Pytorch, ONNX

Software Development Kit

Mobilint qb

'qb' is SDK developed by Mobilint that empowers developers to rapidly create AI applications for edge devices. 'qb' offers user-friendly development environment, ensuring effortless and efficient deployment process for AI models. Leveraging cutting-edge quantization technology, 'qb' guarantees that the model's accuracy remains above 99.9% of the original FP32 model, even after optimization for lightweight deployment. This adaptable SDK is compatible with major ML frameworks, supports over 200 AI models, and includes an intuitive runtime, streamlining AI deployment across a variety of edge devices.





Supported Frameworks PyTorch, TensorFlow, TFLite, ONNX, and Keras

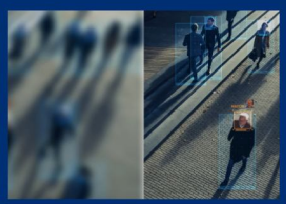
Multiple Instances Mobilint NPU can be plugged into a host PC in multiple instances depending on the applications.

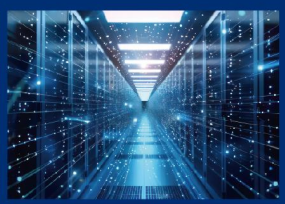
Applications


Smart Factory


Smart City


Smart Farm


Super Resolution


Edge Datacenter


Drone


Robot


Home Appliance


AI CCTV


AI Toy

If you would like more information or solutions, please contact the Mobilint customer representative at **contact@mobilint.com**