

BARQ-V2 AI Vision Processor

The world fastest AI vision processor for edge devices



Key Features

2 Tera Operations Per Second (TOPS)

Enables real-time, low latency & high-efficiency AI inferencing on edge devices

Typical power consumption of just <1W

Industry-leading 7 TOPS/Watt ratio ensuring high energy efficiency without compromising performance

Smallest AI powerhouse

The UAE's first edge AI processor—just 5x5mm, smaller than a fingertip. Redefining edge intelligence.

Supported by

| Host Architectures: X86, ARM

Compatibility

with ANY AI framework

Supporting TensorFlow, TensorFlow Lite, Keras, PyTorch & ONNX

with ANY AI model

Supporting any CNN model from ResNet and Yolo family to any custom models.

with ANY hardware

Integrates seamlessly with any PCB

with ANY environment

Commercial & Industrial grades, supporting -40°C to 85°C

| OSs: Linux, Windows

BARQ-V2 Offering



Chip on Board BARQ-V2

A 5x5mm processor supercharged with 2 Trillion of Operation per Second of raw computing power.

The perfect solution to pack industry level AI performance into your edge device.

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Target Applications

Turn video feeds into instant insights for retail, manufacturing, smart cities, and security applications.

| **Video Surveillance**

| **Industrial Machine Vision**

| **UAV/Drones**

| **Retail Analytics**

Key Benefits of world class AI vision on the Edge

Precision AI Vision

- | Detect small and fast moving objects
- | Cut false alarms and focus on real insights

Faster AI Vision

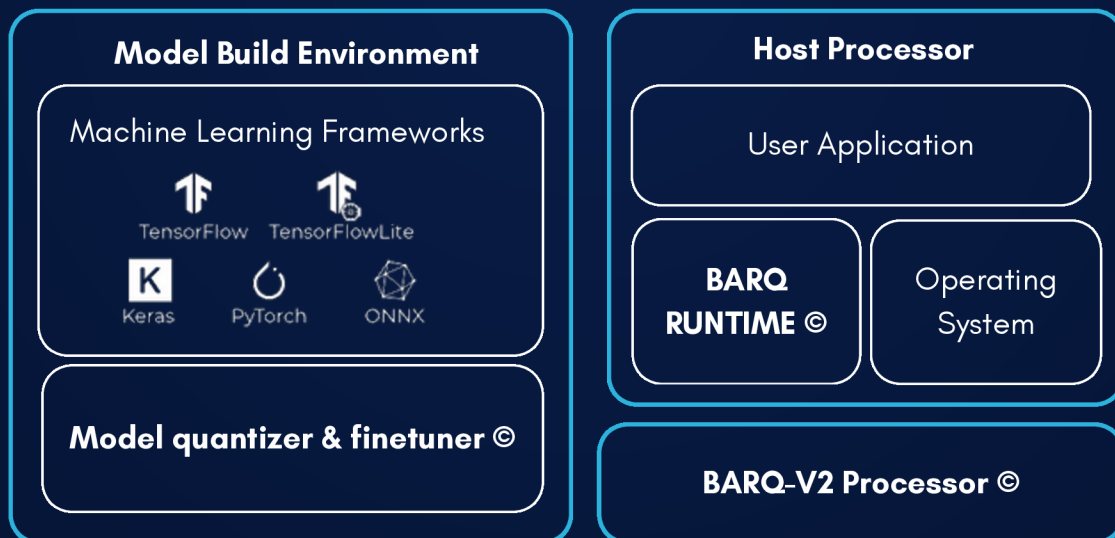
- | Make split-second decisions with confidence
- | Process on-site without network delays

Simpler AI Vision

- | Deploy in minutes, not days
- | Integrate seamlessly with existing systems

Comprehensive Integrated Software Application (CISA)

Our AI software application integrates effortlessly with leading deep learning development frameworks, ensuring a smooth AI deployment



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