BARQTECH

BARQ-V20 AI Vision Processor

The world fastest AI vision processor for edge devices

Key Features

20 Tera Operations Per Second (TOPS)

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

Typical power consumption of just 3W

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

Enabling best in class AI vision

First edge processor powering AI at 4K resolution to increase model accuracy & quality.

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 hardware through M2, PCIe or on-board.

with ANY environment

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

Supported by

| Host Architectures: X86, ARM

| OSs: Linux, Windows

BARQ-V20 Offering

Chip on Board
BARQ-V20

Modules
BARQ-V20 M.2 Key B+M

Cards
BARQ-V20 PCIe

BARQ-V20 AI Vision Processor

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
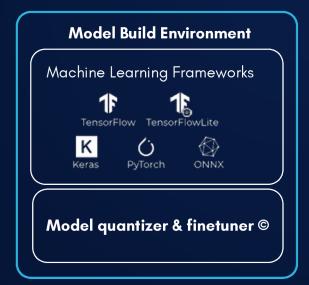| Process on-site without network delays

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

Model Build Environment

Machine Learning Frameworks

TensorFlow   TensorFlowLite

Keras   PyTorch   ONNX

Model quantizer & finetuner ©

Host Processor

User Application

BARQ RUNTIME ©   Operating System

BARQ-V20 Processor ©

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