

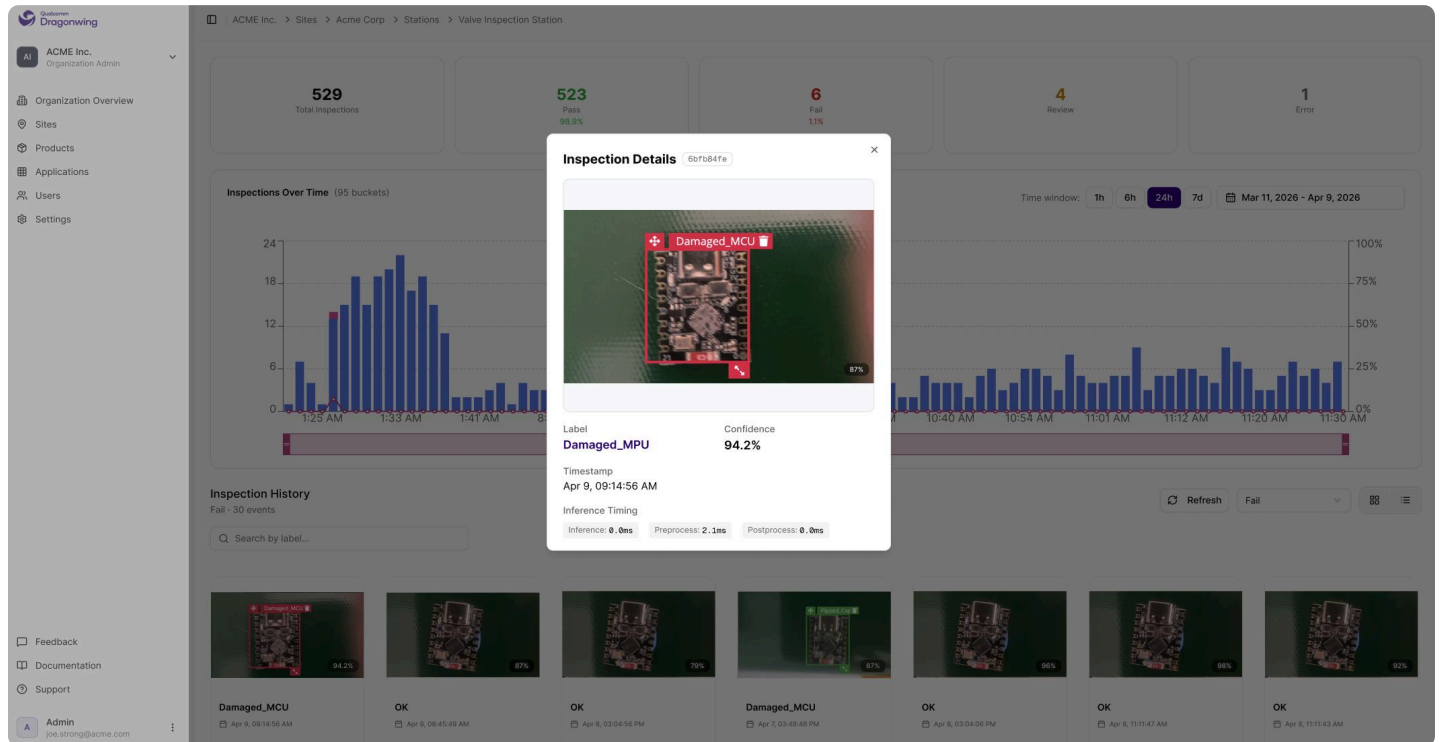
Qualcomm Dragonwing™ Visual Inspection

EDGE IMPULSE
a Qualcomm company



Complete AI-based computer vision solution for smart quality management

Enterprise AI for Industrial-Scale Quality Management



KEY BENEFITS

Rapid Deployment & Data Capture

No complex setup required. Install in minutes and start collecting production data immediately.

No-Code Model Training & Selection

Guided recipe selection with no-code tools and automatic hyper-parameter tuning equip even non-experts.

Human-in-the-Loop Continuous Learning

Launch quickly and continuously refine your model over time to improve accuracy and robustness.

Remote Management & Actionable Insights

Monitor, track performance, and gain actionable AI-driven insights—all remotely, with seamless integration to ERP, PLM, and QMS systems.

TARGET INDUSTRIES

- Automotive Manufacturing
- Electronics & Parts Manufacturing
- Energy / Oil & Gas
- Food, Pharmaceutical Production
- Logistics & Supply Chain

KEY USE CASES

OCR/Label Inspection & Line Clearance

Ensure correct labeling, reduce errors, maintain product integrity & compliance.

Defect Detection

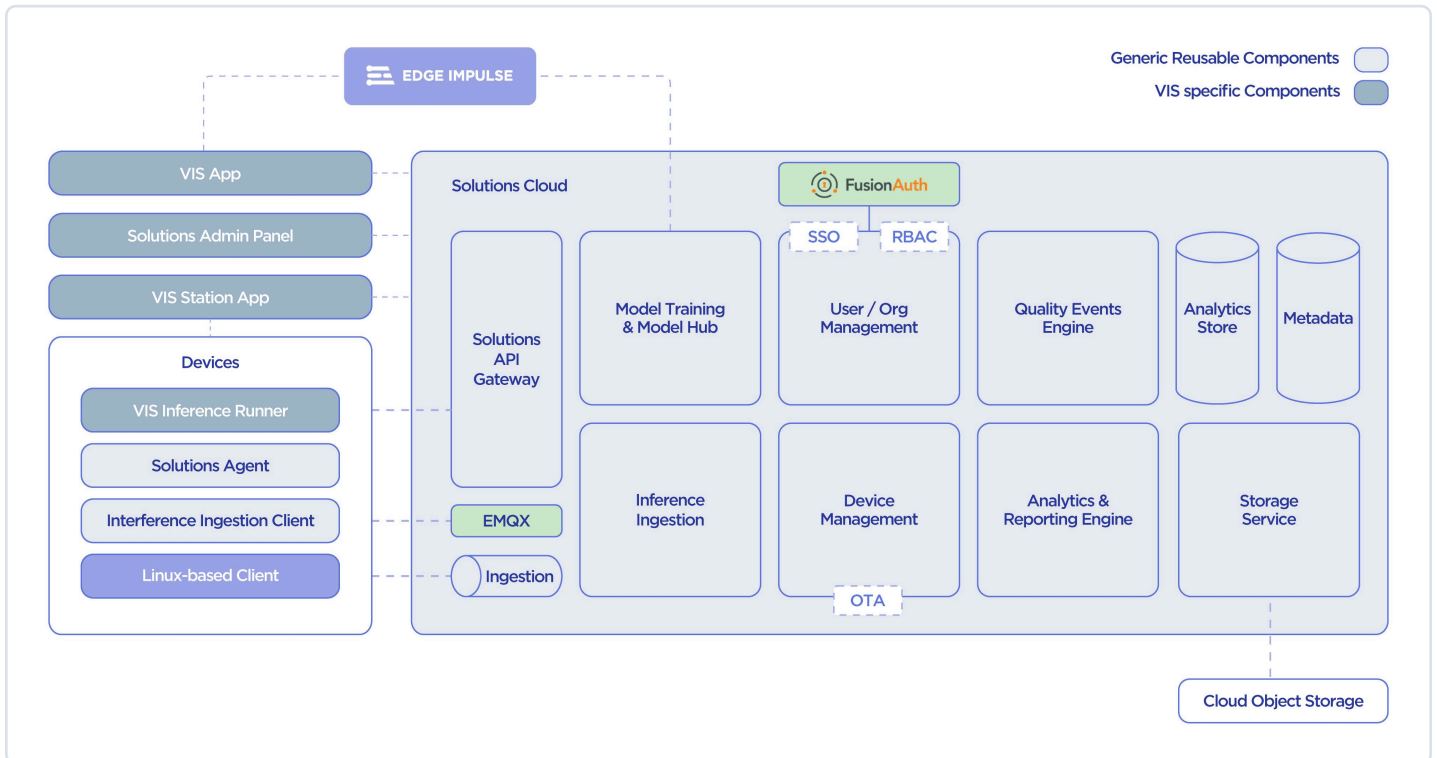
Reduce defects, improve yield, expedite quality assurance.

Assembly Verification

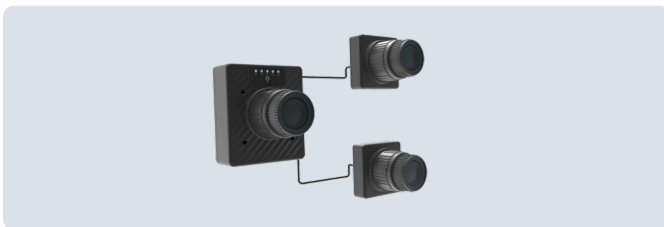
Reduce assembly errors, ensure reliability and traceability.



ARCHITECTURE OVERVIEW



HARDWARE PARTNERS



Codicco PERSPEC-2 Industrial Vision AI Solution

- Rugged, industrial-grade platform built for harsh environments.
- Ready-to-deploy AI camera for automating repetitive tasks across industrial and outdoor use cases.
- Multi-model AI support with three high-speed, high-resolution cameras.
- Ubuntu Linux-compatible and integrated with existing AI models and tools, including Edge Impulse.



Advantech - ICAM-300 Perception AI Camera

- High sensitivity, global shutter 5MP image sensor, autofocus lens and advanced LED Illumination
- High Performance, low power Qualcomm® QCS6490 AI Processor with longevity support
- Lightweight and IP66 compact housing for mobility, on-device AI in harsh environments
- Compatible with Qualcomm® Intelligent Multimedia SDK (QIM SDK), AI Hub and GStreamer

Customers can also leverage existing IP Cameras with a single point of inference on a QCS6490-based gateway.