

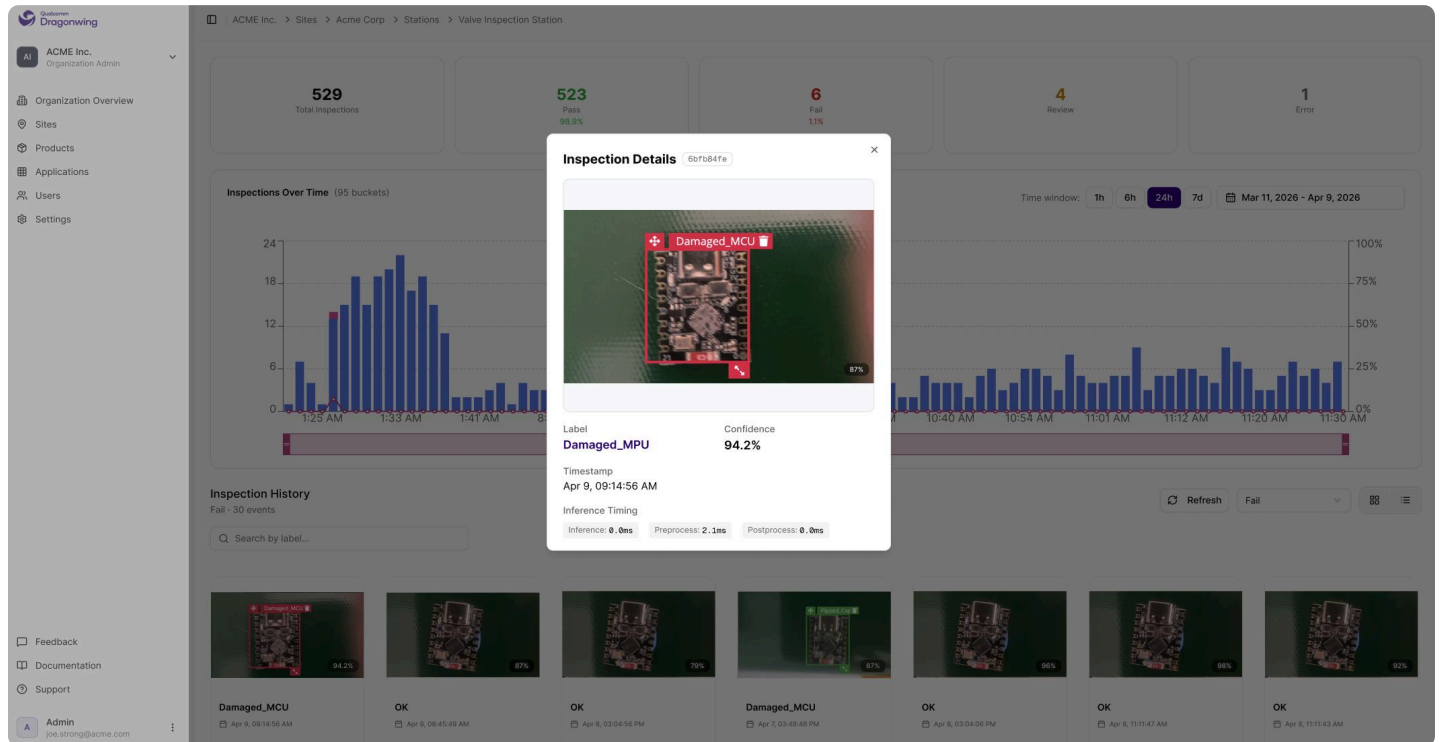
# Qualcomm Dragonwing™ Visual Inspection

**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

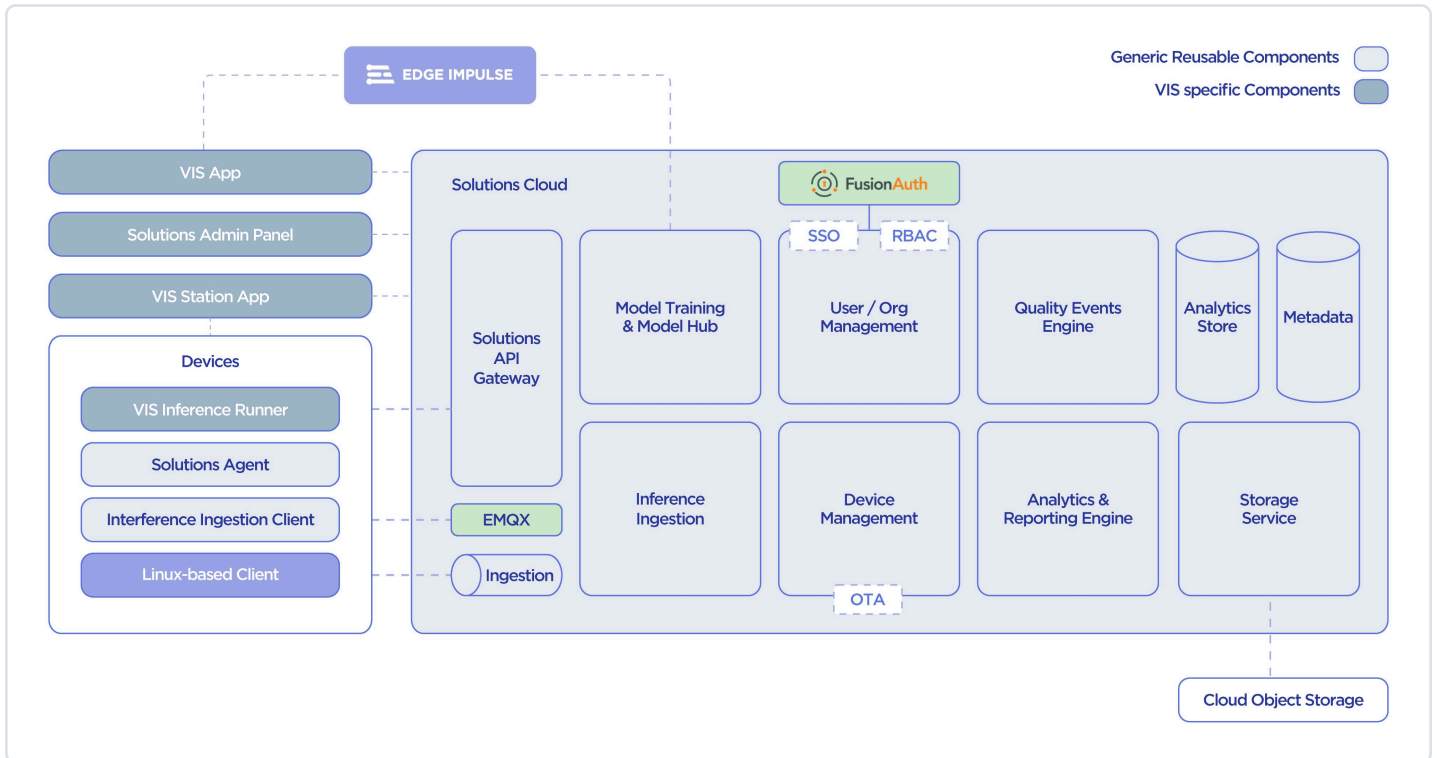
Reduce defects, improve yield, expedite quality assurance.

### Assembly Verification

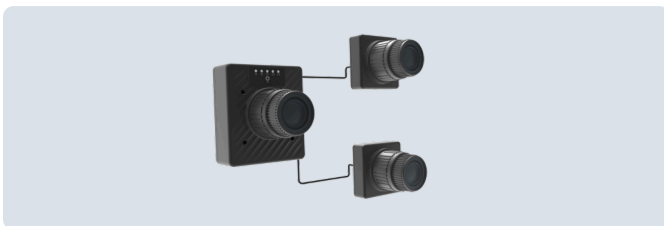
Reduce assembly errors, ensure reliability and traceability.



## 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 Dragonwing™ 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 (IM SDK), Qualcomm® AI Hub and GStreamer

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