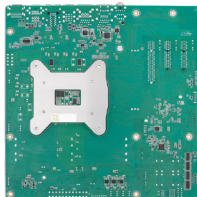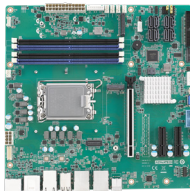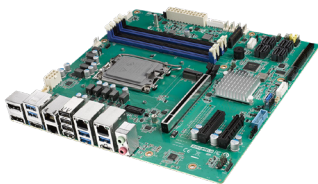# Automated Optical Inspection powered by Advantech AIMB-588 with Intel® Core™ Processors

ADVANTECH
Enabling an Intelligent Planet

High-Performance Edge AI Industrial Motherboard

Advantech AIMB-588 is a powerful industrial motherboard designed for real-time AI inference and defect inspection. With Intel iGPU acceleration, it delivers efficient edge AI computing without requiring a discrete GPU. Featuring M.2 and PCIe expansion slots, it allows seamless AI scalability for evolving industrial needs.

Optimized for machine vision, smart manufacturing, and quality control, the AIMB-588 ensures high-speed data processing and accurate defect detection. Its rugged design guarantees reliable 24/7 operation, making it ideal for industrial automation. Businesses can enhance productivity, reduce downtime, and streamline AI-driven workflows effortlessly.

With scalable performance, real-time processing, and industrial-grade reliability, the AIMB-588 sets a new standard for AI-powered defect inspection and edge computing in manufacturing environments.

Key Features

Reliable Rugged Design

Scalable AI Capabilities

Optimized Industrial Automation

Intel Products & Technology

Intel® Core™ Processors

Intel® Core™ processors deliver high-performance computing for various applications, offering advanced AI acceleration, power efficiency, and seamless multitasking across consumer, commercial, and industrial devices.

Intel® Distribution of OpenVINO™ Toolkit

OpenVINO™ toolkit accelerates AI inference with lower latency, higher throughput, and optimized hardware use, enabling efficient deep learning in computer vision, LLMs, and generative AI.