## **Product Brief** Advantech AIMB-588

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



**Enabling an Intelligent Planet** 







#### High-Performance Edge Al Industrial Motherboard

Advantech AIMB-588 is a powerful industrial motherboard designed for real-time Al 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 guality 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 Al-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



## Intel Products & Technology



Intel<sup>®</sup> Core<sup>™</sup> Processors

Intel<sup>®</sup> Core<sup>™</sup> processors deliver highperformance computing for various applications, offering advanced AI acceleration, power efficiency, and seamless multitasking across consumer, commercial, and industrial devices.

intel. Intel<sup>®</sup> Distribution of OpenVINO<sup>™</sup> Toolkit

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

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