

Fanless Edge AI Platform with Scalable GPU Acceleration



FPC-5211 Series



Fanless Edge AI for AOI Inspection in Smart Manufacturing

Manufacturers face increasing pressure to improve inspection accuracy, reduce downtime, and deploy AI closer to the production line, often in space-constrained, harsh environments. Traditional PC-based systems struggle with heat, reliability, and scalability when running GPU-accelerated vision workloads.

The [FPC-5211 Series](#) addresses these challenges with a fan-less, industrial-grade Edge AI platform powered by 13th/14th Gen Intel® Core™ processors. Designed for AOI and machine vision, it delivers real-time inference while maintaining stable operation through embedded heat-pipe cooling.

With multiple PoE ports, front-accessible I/O, and flexible M.2/ mPCIe expansion, the system simplifies camera integration and future upgrades. Security features such as TPM 2.0 and deterministic networking via TSN further ensure production reliability.

Unlike conventional solutions, the FPC-5211 combines high AI performance, fan-less durability, and deployment flexibility, enabling manufacturers to scale intelligent inspection without compromising uptime or maintenance costs.



Key Features



Fanless Edge AI Power



Expandable 60W MXM GPU



TSN & TPM Security Suite



E-Mark Certified



Support for Intel® Core™ processors (Series 2)

Intel Products & Technology



Intel® Core™
Processors



OpenVINO™
Toolkit

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