

Compact to Expandable Edge AI Solutions for Industrial Automation



ASRock Industrial iEP(F)-9040

Edge AI Powerhouse Built for Vision, Automation, and Control



Industrial businesses face growing demands for real-time AI, automation, and reliable performance at the edge. The iEP(F)-9040 Series is built to meet these challenges as part of ASRock Industrial's Robust Edge AIoT Platform. Powered by Intel® Core™ 200S Series processors, it supports up to 96GB DDR5 memory, Intel® UHD graphics, and multiple expansion options including 5G, 4G, and Wi-Fi modules. Built for harsh environments, the iEP(F)-9040 Series features wide-temperature operation, multiple Intel® Ethernet Controller I226-IT 2.5GbE LAN with PoE and Intel vPro® support, isolated digital I/O, and TPM 2.0 security. PCIe Gen5 expansion enables advanced AI acceleration with add-on cards such as GPUs, making it ideal for applications in machine vision, robotics, smart logistics and process automation. Differentiating itself from conventional edge controllers, the iEP(F)-9040 Series combines durability, scalability, and AI-driven performance to empower next-generation industrial deployments.

***Next-Gen
Rugged Edge
AI Solution with
Real-Time
Processing
and Scalable
Expansion***

Intel Products and Technologies

Accelerating AI and Analytics at the Edge



Intel® Core™
Ultra Processors



OpenVINO™
Toolkit



Intel® oneAPI
Base Toolkit

Key Features

Empowered by Intel.



Versatile
Connectivity



Wide
Temperature



Scalable
Expansion



Real-Time
TSN/TCC
with RF

ASRock Industrial iEP(F)-9040 Series



Product Specifications

CPU	Intel® Core™ Processors (Series 2)
Graphics	Intel® UHD Graphics
Memory	2 x 262-pin SO-DIMM, Dual Channel, 96 GB (48GB per DIMM)
Storage	1 x M.2 (Key M1, 2242/2260/2280) with Gen4 x4 for NVMe SSD 1 x M.2 (Key M2, 2242/2280/22110/25110) with Gen3 x4 for NVMe SSD
Wireless Network	1 x M.2 (Key E, 2230) with CNVi/PCIe Gen3 x1 and USB2.0 for Wi-Fi/BT module
LAN	3 x Intel® Ethernet Controller I226-IT (LAN1 vPro Support) 2 x Intel® Ethernet Controller I226-IT (PoE Support, each port supports IEEE 802.3AT PoE, PoE output max. 30W/single port or 30W/two ports shared)
Operating / Storage Temp.	-40°F~131°F (w/45W~65W CPU) for iEPF-9040S-EW4, -40°F~122°F (w/45W~65W CPU) for iEP-9040E / -40°F~185°F
Dimension (W x D x H)	209.8mm x 290.8mm x 207.1mm for iEPF-9040S-EW4; 201.7mm x 244.8mm x 109.5mm for iEP-9040E
Weight	10kg for iEPF-9040S-EW4 / 6.5kg for iEP-9040E
OS	Windows 10, Linux

Learn More

[ASRock iEP-9040E](#)

[ASRock iEPF-9040S-EW4](#)

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