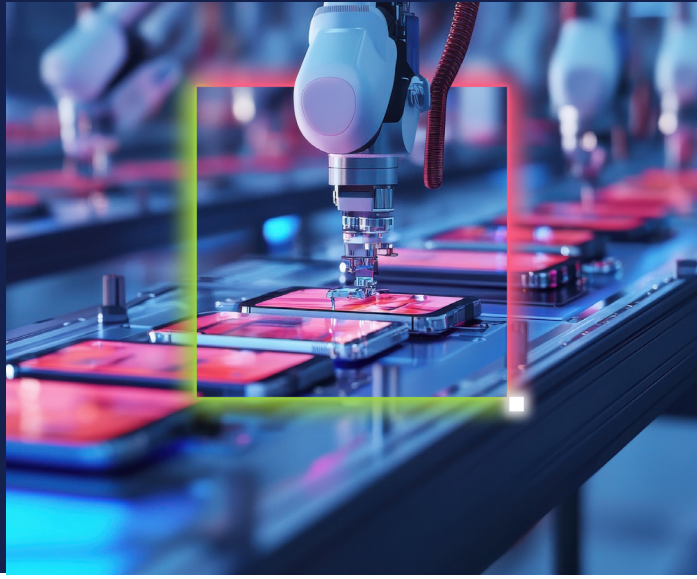
Compact Edge AI Computing with Intel® Core™ Ultra Series 3 Processor



BI270-368H

Mini-ITX System for Industrial Edge AI

bcm ADVANCED RESEARCH × intel

Industrial edge AI applications require substantial compute performance in space-constrained installations, along with flexible connectivity for cameras, displays, networks, and storage. The BCM BI270-368H addresses these requirements in a compact 8.6 × 8 × 2.2-inch barebone computer built around the MX368H Mini-ITX motherboard and Intel® Core™ Ultra X7 processor 368H.

Its integrated Intel® Arc™ B390 GPU delivers up to 122 GPU TOPS, complemented by an NPU offering up to 50 TOPS to support on-device AI inference. The system also provides dual Intel® Ethernet Controller I226-LM 2.5GbE LAN, two Thunderbolt™ 4 ports, support for four independent displays, and three M.2 expansion interfaces for storage and connectivity.

With dual DDR5 memory sockets supporting up to 128GB, 12–24V DC input, and optional wall mounting, the BI270-368H offers a flexible hardware platform for machine vision, industrial automation, intelligent kiosks, and edge analytics.

Up to 180 AI TOPS in a compact 8.6-inch system with PCIe Gen5 NVMe storage.

Intel Products and Technologies

Accelerating AI and Analytics at the Edge

Intel® Core™ Ultra Processors

Intel® Arc™ Graphics

OpenVINO™ Toolkit

Intel® Ethernet

Key Features

Empowered by Intel.

- Intel® Core™ Ultra Series 3 Processor
- Up to 128GB DDR5
- Up to 180 AI TOPS
- PCIe Gen5 NVMe

BCM B1270-368H





intel ai

Intel® AI Edge Systems

Product Specifications

CPU	Intel® Core™ Ultra X7 368H Processor, 18MB Cache
Graphics	Intel® Arc™ B390 GPU, 12 Xe-cores, up to 122 GPU TOPS; Intel® NPU, up to 50 TOPS
Memory	2 × DDR5 SODIMM/CSODIMM sockets, up to 128GB DDR5-7200 with CSODIMM or DDR5-6400 with SODIMM
Storage	1 × M.2 2280/2242 M-Key, PCIe Gen5 x4 NVMe
Wireless Network	1 × M.2 2230 E-Key (CNVi support) 1 × M.2 3042 B-Key with Nano SIM socket for optional wireless module
LAN	2 × Intel® Ethernet Controller I226-LM 2.5GbE, 2 × RJ45
Operating / Storage Temp.	0°C ~ 35°C / -20°C ~ 80°C
Dimension (W x D x H)	203.2mm × 218.1mm × 55mm (8 × 8.6 × 2.2 in.)
Weight	1.58 kg (3.5 lbs)
OS	Windows 11 64-bit, Ubuntu Linux
I/O (Input/Output)	2 × DisplayPort++, 2 × Thunderbolt™ 4 USB-C, 2 × USB 3.2 Gen 2 Type-A, 2 × USB 2.0 Type-A (rear), 2 × USB 2.0 or USB 3.2 Gen 1 (front), 1 × Line-out, 1 × DC-in (12–24V), optional 2 × COM ports; supports up to 4 independent displays.

Learn More

BCM BI270-368H

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