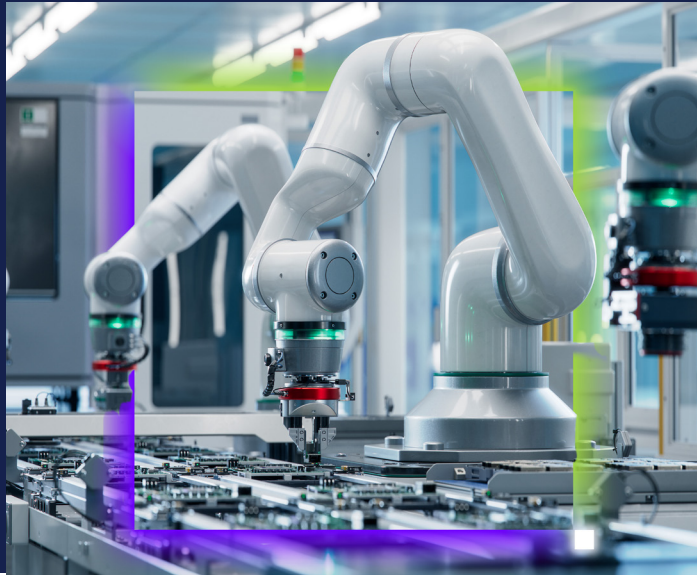
Compact, High-Performance Edge AI with Intel® Core™ Ultra Series 3 Processor



BI270-356H

Compact PC for Industrial AI and Automation

Industrial edge applications demand responsive computing and AI acceleration in compact systems that can integrate with existing equipment and infrastructure. The BCM BI270-356H addresses these requirements with a compact Mini-ITX barebone computer powered by the Intel® Core™ Ultra 7 processor 356H.

Featuring 16 CPU cores, integrated Intel® Graphics delivering up to 40 GPU TOPS, and a dedicated NPU providing up to 50 TOPS, the system supports on-device AI inference, machine vision, and industrial data processing without requiring a discrete GPU.

The BI270-356H also offers up to 128GB DDR5 memory, PCIe Gen5 x4 NVMe storage, dual 2.5GbE LAN, two Thunderbolt™ 4 ports, and support for four independent displays.

Its compact 8.6 × 8 × 2.2-inch enclosure and 12–24V DC input provide flexible integration for industrial automation, intelligent kiosks, edge analytics, and embedded computing applications.

Intel® Core™ Ultra Series 3 with* integrated AI acceleration *in a compact 8.6-inch system.

Intel Products and Technologies

Accelerating AI and Analytics at the Edge

Intel® Core™ Ultra Processors

Intel® Graphics

OpenVINO™ Toolkit

Intel® Ethernet

Key Features

Empowered by Intel.

- Intel® Core™ Ultra Series 3 Processor
- DDR5-7200 / 128 GB
- 90 GPU + NPU TOPS
- PCIe Gen5 x 4 NVMe

BCM B1270-356H





intel ai

Intel® AI Edge Systems

Product Specifications

CPU	Intel® Core™ Ultra 7 Processor 356H, 16 cores, 18MB Cache, up to 4.70 GHz
Graphics	Integrated Intel® Graphics, 4 Xe-cores, up to 40 GPU TOPS Intel® NPU, up to 50 TOPS
Memory	2 × DDR5 SODIMM/CSODIMM sockets, up to 128GB DDR5-7200 MT/s with CSODIMM or DDR5-6400 MT/s with SODIMM
Storage	1 × M.2 2280/2242 M-Key, PCIe Gen5 x4 NVMe
Wireless Network	1 × M.2 2230 E-Key with 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 × 12–24V DC-in, optional 2 × COM ports; supports up to 4 independent displays.

Learn More

BCM BI270-356H

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