

Fanless Embedded AI System with Intel® Core™ Ultra Processor (Series 1)



Axiomtek eBOX630B



Ruggedized industrial grade system
powered by Intel® Core™ Ultra Processors
(Series 1) with Intel® Arc GPU and Intel®
AI Boost NPU

The eBOX630B is a compact, fanless embedded system powered by Intel® Core™ Ultra Processors (Series 1), featuring integrated Intel® Arc™ GPU and Intel® AI Boost NPU for high-performance computing and accelerated AI inference. Designed for industrial environments, it supports wide-temperature operation and 9V–60V DC-in, ensuring reliable performance in harsh conditions. The system includes eight USB ports, four Ethernet ports, and front-accessible 2.5" HDD/SSD and M.2 NVMe SSD for flexible connectivity and storage expansion.

Built for versatile edge AI applications, the eBOX630B enables intelligent transportation systems with real-time traffic analytics, supports smart city infrastructure through enhanced surveillance and public safety, and drives industrial automation with predictive maintenance and process optimization. It also facilitates energy-efficient building management and environmental monitoring. With its rugged design and advanced AI capabilities, the eBOX630B is an ideal solution for long-term deployment in mission-critical edge environments.

**Versatile and
ruggedized
system
with rich I/O
interface for
industrial
applications**

Intel Products and Technologies

Accelerating AI and Analytics at the Edge



Intel® Core™
Ultra Processors



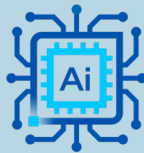
Intel® Arc™
Graphics



Intel®
Ethernet

Key Features

Empowered by Intel.



AI-Ready
Performance



Rich I/O &
TSN LAN



Front-Access
Storage



Wide
Temperature
& Power Input
Range

Axiomtek eBOX630B



Product Specifications

CPU	Intel® Core™ Ultra 7 processor 155H (16 cores, 28W TDP) Intel® Core™ Ultra 5 processor 125H (14 cores, 28W TDP)
Graphics	Intel® Arc™ A-Series Graphics (embedded)
Memory	2 x 262-pin DDR5 5600 MHz SO-DIMM, non-ECC, up to 96GB total
Storage	2 x 2.5" swappable SSD/HDD drive bay (up to 9.5 mm height & RAID 0, 1), 1 x M.2 2280 M key socket (PCIe x4) for NVMe SSD
Wireless Network	Expandable with LTE/GNSS full-size PCI Express Mini Card and WiFi/Bluetooth M.2 Key E 2230 card
LAN	3 x 10/100/1000/2500 Mbps Ethernet (Intel® Ethernet Controller I226-IT) 1 x 10/100/1000 Mbps Ethernet (Intel® Ethernet Controller I210-IT)
Operating Temp.	-40°C to 70°C
Dimension (W x D x H)	250mm x 170mm x 60 mm
Weight	2.4 kg
OS	Windows 11, Linux

Learn More

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