Product Brief

ASRock Industrial NUC-BOX 255H

Compact Powerhouse for AI at the Edge Powered by Intel® Core™ Ultra Processor and Arc™ Graphics

Empowering Edge Intelligence with Unmatched AI Performance and Industrial Reliability

The NUC BOX-255H is a compact, AI-ready embedded computing system designed for high-performance computing across AI workloads, industrial automation, digital signage, and edge applications. Powered by Intel® Core™ Ultra processors and Intel® Arc™ graphics, it delivers advanced AI acceleration, smooth multitasking, and stunning graphics. Supporting up to 96GB DDR5 6400MHz memory, dual Intel 2.5GbE LAN, and multiple storage options including M.2 M-Key and SATA 3.0 posrts for SSD with Intel® VMD RAID 0/1, it ensures speed and reliability. Versatile display outputs (HDMI 2.1, DisplayPort 2.1, USB-C DP) and fast connectivity via USB4/Thunderbolt™ 4, USB 3.2 Gen 2, and Wi-Fi 6E make it an ideal edge solution. Built for performance, flexibility, and efficiency, the NUC BOX-255H empowers AI business with compact, future-ready computing.

Key Features

- AI Acceleration System
- High-Speed Connectivity
- Multi-4K Display
- Compact Form Factor Desgin

Intel Products & Technology

Intel® Core™ Ultra Processors Series 2

Intel® Core™ Ultra processors scale performance and AI acceleration, powering edge computing across smart cities, factories, retail, entertainment, and healthcare for advanced AI-driven solutions.

Intel® Arc™ GPU

Intel® Arc™ is a high performance graphics brand, designed to accelerate AI and parallel processing workloads at the edge. Its advanced compute capabilities enable high-resolution vision analytics, making it ideal for industrial AI applications.

Learn More

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