

Compact Powerhouse for AI at the Edge



ASRock Industrial NUC BOX-255H



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 ports 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.

**Space-saving
NUC
delivering
next-level AI,
content creation,
and gaming
performance**

Intel Products and Technologies

Accelerating AI and Analytics at the Edge



Intel® Core™
Ultra Processors



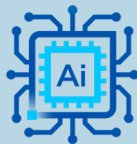
Intel® Arc™
Graphics



Intel® oneAPI
Base Toolkit

Key Features

Empowered by Intel.



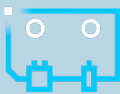
AI Acceleration System



Multi-4K Display



High-Speed Connectivity



Compact Form Factor Design

ASRock Industrial NUC BOX-255H



Product Specifications

CPU	Intel® Core™ Ultra Processors (Series 2) NUC BOX-255H (Ultra 7 255H, 6P+8E) NUC BOX-225H (Ultra 5 225H, 4P+8E)
Graphics	Intel® Arc™ 140T graphics (255H) Intel® Arc™ 130T graphics (225H)
Memory	Dual Channel DDR5 6400 MHz, 96GB (48 GB per DIMM), 2 x 262-pin SO-DIMM
Storage	1 x M.2 (KEY M, 2242/2280) with PCIe Gen4x4 for SSD 1 x M.2 (KEY M, 2242) with PCIe Gen4x4 for SSD 1 x SATA3.0 (6.0 Gb/s) Intel® Volume Management Device (Intel® VMD) RAID 0/1 **supported by identical interface (PCIe) PCIe interface: 2*M.2 Key M
Wireless Network	1 x Wi-Fi 6E 802.11ax + BT 5.3 (M.2 Key E, 2230 PCIe x1, USB 2.0 for Wireless)
LAN	Intel® Ethernet Controller I226-LM with 10/100/1000/2500 Mbps Intel® Ethernet Controller I226-V with 10/100/1000/2500 Mbps
Operating / Storage Temp.	0°C ~ 40°C / -40° C ~ 85° C
Dimension (W x D x H)	117.55mm x 110mm x 49mm
Weight	1.0Kg
OS	Windows 10/11

Learn More

[ASRock NUC BOX-255H](#)

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