

NUC Ultra 100 BOX Series

NUC BOX-155H, NUC BOX-125H
Fanned BOX

ASRock
— Industrial —



KEY FEATURES

- Intel® Core™ Ultra processors (Meteor Lake-H)
- 2 x 262-pin SO-DIMM DDR5 5600MHz up to 96GB (48GB per DIMM)
- 1 x USB4/Thunderbolt™4, 4 x USB3.2 Gen2, 2 x M.2 Key M,
1 x M.2 Key E (WiFi-6E Module), 1 x SATA3
- 2 x Intel 2.5 Gigabit LAN
- Supports Quad display, 2 x HDMI 2.1 TMDS, 1 x DP 2.1 (from USB4),
1 x DP 1.4a (from Type-C)
- Intel® PTT
- Supports Intel® vPro, VMD RAID 0/1
- 19V Power Adapter
- 117.5 x 110.0 x 49mm (4.63" x 4.33" x 1.93"), Fanned Barebone

SPECIFICATIONS

Processor System

CPU	Intel® Core™ Ultra processors (Meteor Lake-H) NUC BOX-155H (6P+8E) NUC BOX-125H (4P+8E)
Chipset	MCP
BIOS	AMI SPI 256 Mbit

Memory

Technology	Dual Channel DDR5 5600 MHz
Capacity	96GB (48 GB per DIMM)
Socket	2 x 262-pin SO-DIMM

Graphics

Controller	Intel® Iris® Xe Graphics
HDMI	HDMI 2.1 TMDS Max resolution up to 4096x2160@60Hz
DisplayPort	DisplayPort 2.1/ 1.4a, DP++ Max resolution up to 4096x2160@60Hz
MultiDisplay	Quad-Display (Included 2 outputs from Type-C)

Expansion Slot

M.2/ WLAN	1 x Wi-Fi 6E 802.11ax + BT 5.3 (M.2 Key E, 2230 PCIe x1, USB 2.0 for Wireless)
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Audio

Interface	Realtek ALC256, High Definition Audio.
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Ethernet

Controller/ Speed	LAN1: Intel® I226LM with 10/100/1000/2500 Mbps LAN2: Intel® I226V with 10/100/1000/2500 Mbps
Connector	2 x RJ-45

Storage

M.2	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
SATA	1 x SATA3.0 (6.0 Gb/s)
RAID	Intel® VMD RAID 0/1 **supported by identical interface (PCIe) PCIe interface: 2* M.2 Key M

Front I/O

USB	1 x USB 3.2 Gen2 (Type A) 1 x USB4/Thunderbolt™ 4 (Supports DP 2.1 display output) 1 x USB3.2 Gen2x2 (Type-C, Supports DP1.4a display output) *For Thunderbolt support, please refer to support list.
Audio	1 (headphone & microphone jack)

Rear I/O

HDMI	2 x HDMI 2.1 TMDS
Ethernet	2 x 2.5 Gigabit LAN
USB	2 x USB 3.2 Gen2 (Type-A)
DC Jack	1

Watchdog Timer

Output	From Super I/O to drag RESETCON#
Interval	256 Segments, 0, 1, 2, ...255sec

Power Requirements

Input PWR	12V~24V DC-In Jack
Power On	AT/ATX Supported - AT : Directly PWR on as power input ready - ATX : Press button to PWR on after power input ready

Environment

Operating Temp	0°C ~ 40°C
Storage Temp	-40°C ~ 85°C
Operating Humidity	5% ~ 90%
Storage Humidity	5% ~ 90%

Mechanical

Mounting	VESA mount
Dimensions (L x W x H)	117.5 x 110.0 x 49mm (4.63" x 4.33" x 1.93")
Weight	Net Weight: 1.0Kg

Others

OS Support	Windows 10/11
TPM	Intel® PTT
Certifications	CE, FCC
Packing List	1 x 19V/120W Power Adapter (Core Ultra 7) 1 x 19V/90W Power Adapter (Core Ultra 5) 1 x VESA mount bracket

Assured Systems

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