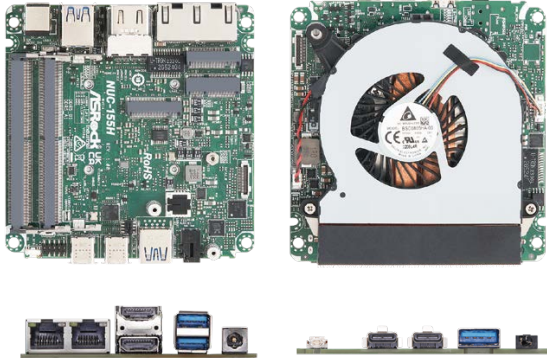


NUC Ultra 100 Motherboard Series

NUC-155H, NUC-125H NUC Motherboard

KEY FEATURES



- Intel® Core™ Ultra processors (Meteor Lake-U/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, 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
- 12V~24V DC-in

SPECIFICATIONS

Form Factor

| | |
|------------|--|
| Dimensions | NUC (4.09-in x 4.02-in x 1.5-in, 10.4 cm x 10.2 cm x 3.8 cm) |
|------------|--|

Processor System

| | |
|---------|---|
| CPU | Intel® Core™ Ultra processors (Meteor Lake-H/U) NUC-155H (Ultra 7 155H, 6P+8E) NUC-125H (Ultra 5 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® Arc™ 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 | Max 4 display (Included 2 outputs from Type-C) |

Expansion Slot

| | |
|-----|---|
| M.2 | 1 x M.2 (Key E, 2230) with PCIe x1, USB 2.0 and CNVi for Wireless |
|-----|---|

Audio

| | |
|-----------|--|
| Interface | Realtek ALC256, High Definition Audio. |
|-----------|--|

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 |

Front I/O

| | |
|-------|---|
| USB | 1 x USB 3.2 Gen2 (Type A) 1 x USB4/Thunderbolt™4 (5V/3A, Supports DP 2.1 display output) 1 x USB3.2 gen2x2 (Type-C, 5V/3A, 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 |

Storage

| | |
|------|---|
| M.2 | 1 x M.2 (KEY M, 2242) with PCIe Gen4 x4 for SSD 1 x M.2 (KEY M, 2242/2280) with PCIe Gen4 x4 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 |

Security

| | |
|-----|------------|
| TPM | Intel® PTT |
|-----|------------|

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 | -20°C ~ 70°C |
| Storage Temp | -40°C ~ 85°C |
| Operating Humidity | 5% ~ 90% |
| Storage Humidity | 5% ~ 90% |

Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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