

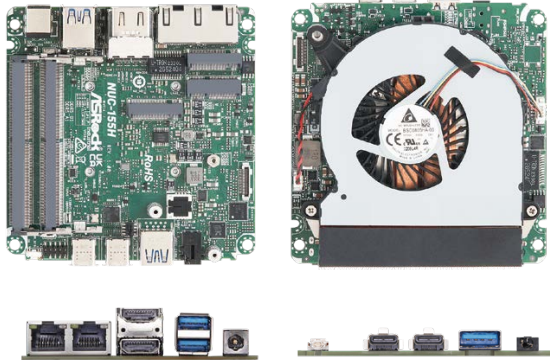
# NUC Ultra 100 Motherboard Series

## 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)<br>NUC-155H (Ultra 7 155H, 6P+8E)<br>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<br>Max resolution up to 4096x2160@60Hz               |
| DisplayPort  | DisplayPort 2.1/ 1.4a, DP++<br>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<br>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)<br>1 x USB4/Thunderbolt™4 (5V/3A, Supports DP 2.1 display output)<br>1 x USB3.2 gen2x2 (Type-C, 5V/3A, Supports DP1.4a display output)<br>*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<br>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<br>**supported by identical interface (PCIe)<br>PCIe interface: 2* M.2 Key M        |

##### Security

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

##### Watchdog Timer

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

##### Power Requirements

|           |                                                                                                                           |
|-----------|---------------------------------------------------------------------------------------------------------------------------|
| Input PWR | 12V~24V DC-In Jack                                                                                                        |
| Power On  | AT/ATX Supported<br>- AT : Directly PWR on as power input ready<br>- 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%     |

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