

# NUC 1300/D4 Motherboard Series

## NUC Motherboard

### KEY FEATURES

- Intel® 13th Gen (Raptor Lake-P) Core™ Processors
- 2 x 260-pin SO-DIMM DDR4 3200 MHz, up to 64GB
- 1 x USB4, 5 x USB3.2 Gen2, 2 x USB 2.0, 1 x M.2 Key M, 1 x M.2 Key E, 1 x COM, 1 x SATA3
- 2 x Intel 2.5 Gigabit LAN
- Supports Quad display, 1 x HDMI 2.0b, 3 x DP 1.4a (2 from Type-C)
- TPM 2.0 onboard IC
- 12V~19V 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® 13th Gen (Raptor Lake-P) Core™ Processors<br>NUC-1360P/D4 (i7-1360P, 4P+8E)<br>NUC-1340P/D4 (i5-1340P, 4P+8E) |
| Chipset | MCP                                                                                                                  |
| BIOS    | AMI SPI 256 Mbit                                                                                                     |

#### Memory

|            |                            |
|------------|----------------------------|
| Technology | Dual Channel DDR4 3200 MHz |
| Capacity   | 64GB (32 GB per DIMM)      |
| Socket     | 2 x 260-pin SO-DIMM        |

#### Graphics

|              |                                                               |
|--------------|---------------------------------------------------------------|
| Controller   | Intel® Iris® X® Graphics                                      |
| HDMI         | HDMI 2.0b<br>Max resolution up to 4096x2160@60Hz              |
| DisplayPort  | DisplayPort 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 ALC233, High Definition Audio. |
|-----------|----------------------------------------|

#### Ethernet

|                   |                                          |
|-------------------|------------------------------------------|
| Controller/ Speed | Intel® I226LM with 10/100/1000/2500 Mbps |
| Connector         | 2 x RJ-45                                |

#### Front I/O

|       |                                                                                                                                     |
|-------|-------------------------------------------------------------------------------------------------------------------------------------|
| USB   | 2 x USB 3.2 Gen2 (Type A)<br>1 x USB4 (Supports DP1.4a display output)<br>1 x USB 3.2 Gen2 (Type-C, Supports DP1.4a display output) |
| Audio | 1 (headphone & microphone jack)                                                                                                     |

#### Rear I/O

|             |                           |
|-------------|---------------------------|
| HDMI        | 1 x HDMI 2.0b             |
| DisplayPort | 1 x DP1.4a                |
| Ethernet    | 2 x 2.5 Gigabit LAN       |
| USB         | 2 x USB 3.2 Gen2 (Type A) |
| DC Jack     | 1                         |

#### Internal Connector

|     |                                     |
|-----|-------------------------------------|
| USB | 2 x USB 2.0 (1 x 2.00 pitch header) |
| COM | 1 x COM (RS-232/RS-422/RS-485)      |
| TPM | TPM 2.0 onboard IC                  |

#### Storage

|      |                                                                                                     |
|------|-----------------------------------------------------------------------------------------------------|
| M.2  | 1 x M.2 (KEY M, 2242/2260/2280) with PCIe Gen4 x4 for SSD<br>*M.2 Key M 2280 (Supported by bracket) |
| SATA | 1 x SATA3.0 (6.0 Gb/s)                                                                              |

#### Watchdog Timer

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

#### Power Requirements

|           |                                                                                                                           |
|-----------|---------------------------------------------------------------------------------------------------------------------------|
| Input PWR | 12V~19V 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     | 0°C ~ 60°C     |
| Storage Temp       | -40° C ~ 85° C |
| Operating Humidity | 5% ~ 90%       |
| Storage Humidity   | 5% ~ 90%       |