



## NUC 1100 Motherboard Series

NUC Motherboard



### KEY FEATURES

- Intel® 11th Gen (Tiger Lake-UP3) Core™ Processors
- 2 x 260-pin SO-DIMM DDR4 3200 MHz, up to 64GB
- 6 x USB 3.2 Gen2, 2 x USB 2.0, 1 x M.2 Key M, 1 x M.2 Key E, 1 x COM, 1 x SATA3
- 1 x Intel 1 Gigabit LAN, 1 x Intel 2.5 Gigabit LAN
- Supports Quad display, 1 x HDMI 2.0a, 3 x DP 1.4 (2 from Type-C)
- TPM 2.0 onboard IC
- Supports Intel® vPro, AMT (NUC-1185G7E/NUC-1145G7E)
- 12V~19V DC-In

### SPECIFICATIONS

#### Form Factor

|            |                         |
|------------|-------------------------|
| Dimensions | NUC (4.09-in x 4.02-in) |
|------------|-------------------------|

#### Processor System

|         |   |
|---------|---|
| CPU     | Intel® 11th Gen (Tiger Lake-UP3) Core™ Processors<br>NUC-1165G7 (I7-1165G7, QC, Max Speed up to 4.7GHz)<br>NUC-1135G7 (I5-1135G7, QC, Max Speed up to 4.2GHz)<br>NUC-1115G4 (I3-1115G4, DC, Max Speed up to 4.1GHz)<br>NUC-1185G7E (I7-1185G7E QC, Max Speed up to 4.4GHz)<br>NUC-1145G7E (I5-1145G7E QC, Max Speed up to 4.1GHz)<br>NUC-1115G4E (I3-1115G4E DC, Max Speed up to 3.9GHz)<br>NUC-6305E (Celeron 6305E, DC, 1.8GHz) |
| 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 for i7/i5 CPU<br>Intel® UHD Graphics for i3/Celeron CPU |
| HDMI         | HDMI 2.0a<br>Max resolution up to 4096x2160@60Hz                                 |
| DisplayPort  | DisplayPort 1.4, 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 | NUC-1185G7E/NUC-1145G7E:<br>LAN1: Intel® I219LM with 10/100/1000 Mbps, supports AMT/vPro<br>LAN2: Intel® I225LM with 10/100/1000/2500 Mbps<br>NUC-1165G7/NUC-1135G7/NUC-1115G4/NUC-1115G4E/NUC-6305E:<br>LAN1: Intel® I219V with 10/100/1000 Mbps<br>LAN2: Intel® I225LM with 10/100/1000/2500 Mbps |
| Connector         | 2 x RJ-45   |

#### Front I/O

|       |   |
|-------|---|
| USB   | 2 x USB 3.2 Gen2 (Type-A)<br>2 x USB 3.2 Gen2 (Type-C, Supports DP1.4 display output)<br>* USB4™ Compliance Test is pending for certification |
| Audio | 1 (headphone & microphone jack)   |

#### Rear I/O

|             |  |
|-------------|--|
| HDMI        | 1 x HDMI 2.0a                          |
| DisplayPort | 1 x DP1.4                              |
| Ethernet    | 1 x 1 Gigabit LAN, 1 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)                     |
| TPM | TPM 2.0 onboard IC                  |

#### Storage

|      |   |
|------|---|
| M.2  | 1 x M.2 (KEY M, 2242/2260/2280) with PCIe x4 and SATA3 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%       |

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