

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 onboard
- 12V~19V DC-In

SPECIFICATIONS

**Form Factor**

Dimensions	NUC (4.09-in x 4.02-in)
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**Processor System**

CPU	Intel® 11th Gen (Tiger Lake-UP3) Core™ Processors NUC-1185G7E (I7-1185G7E, QC, Max Speed up to 4.4GHz) NUC-1145G7E (I5-1145G7E, QC, Max Speed up to 4.1GHz) NUC-1115G4E (I3-1115G4E, DC, Max Speed up to 3.9GHz)
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 Intel® UHD Graphics for i3/Celeron CPU
HDMI	HDMI 2.0a Max resolution up to 4096x2160@60Hz
DisplayPort	DisplayPort 1.4, 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
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**Audio**

Interface	Realtek ALC233, High Definition Audio.
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**Ethernet**

Controller/ Speed	NUC-1185G7E/NUC-1145G7E: LAN1: Intel® I219LM with 10/100/1000 Mbps LAN2: Intel® I225LM with 10/100/1000/2500 Mbps NUC-1115G4E: LAN1: Intel® I219V with 10/100/1000 Mbps 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) 2 x USB 3.2 Gen2 (Type-C, Supports DP1.4 display output) * 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	Infineon SLB9670VQ2.0

**Storage**

M.2	1 x M.2 (Key M, 2242/2260/2280) with SATA3 and PCIe Gen4 x4 for SSD *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 - AT : Directly PWR on as power input ready - 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%