

NUC Core 300 Motherboard Series

NUC Motherboard

KEY FEATURES

- Intel® Core Processors Series 3 (Wildcat Lake -U)
- 1 x 262-pin SO-DIMM DDR5 6400MHz up to 64GB, supports In-Band ECC
- 2 x USB3.2 Gen2X2, 3 x USB3.2 Gen1, 2 x USB 2.0, 2 x M.2 Key M, 1 x M.2 Key E, 1 x COM
- 1 x Intel 2.5 Gigabit LAN, 1 x Realtek 2.5 Gigabit LAN
- Supports Triple display, 2 x HDMI 2.1, 2 x DP 1.4a (from Type-C)
- Intel® PTT
- 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 Processors Series 3 (Wildcat Lake -U) NUC-320 (Core™ 5 320, 2P+4LPE) NUC-304 (Core™ 3 304, 1P+4LPE) *All CPU sku can support In-Band ECC
Chipset	MCP
BIOS	AMI SPI 256 Mbit

Memory

Technology	Single Channel DDR5 6400 MHz
Capacity	64GB
Socket	1 x 262-pin SO-DIMM

Graphics

Controller	Intel® Graphics
HDMI	HDMI 2.1 Max resolution up to 4096x2160@60Hz
DisplayPort	DisplayPort 1.4a, DP++ Max resolution up to 4096x2160@60Hz
MultiDisplay	Max 3 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® I226V with 10/100/1000/2500 Mbps LAN2: Realtek RTL8125BG with 10/100/1000/2500 Mbps
Connector	2 x RJ-45

Front I/O

USB	1 x USB 3.2 Gen1 (Type-A) 2 x USB3.2 gen2x2 (Type-C, 5V/3A, Supports DP1.4a display output)
Audio	1 (headphone & microphone jack)

Rear I/O

HDMI	2 x HDMI 2.1
Ethernet	2 x 2.5 Gigabit LAN
USB	2 x USB 3.2 Gen1 (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)

Storage

M.2	1 x M.2 (KEY M, 2242) with PCIe Gen4 x1 for SSD 1 x M.2 (KEY M, 2242/2280) with PCIe Gen4 x2 for SSD
-----	---

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% (non-condensing)
Storage Humidity	5% ~ 90% (non-condensing)