

NUC-RPU

**13th Generation Intel® Raptor Lake-U Fanless
Ultra Slim System**



Product Features

- 13th Gen Intel® Core™ i7/i5/i3 (15W) Processors
- 1-Memory Socket (Capacity Max. Up to 32GB DDR5 4800)
- 2-Intel® Ethernet Controller (1GbE, 2.5GbE)
- 3-Expanslot Slot (M.2 Key-E, Key-B, Key-M)
- 8-USB Port (2-USB 2.0, 4-USB 3.2 Gen 2x1, 2-USB 3.0)
- Support dTPM 2.0, iAMT
- Intel® Iris® Xe/ UHD Graphics
- 2-COM Port (RS-232/422/485)
- 2-Audio Jack (Mic-In, Line-Out)
- 4-Display (HDMI 2.0b)
- Support Table Stand, VESA, DIN Rail mount

Specification

System Information

Processor	Embedded (15W) Intel® Core™ i7-1365UE Processor(Project Base) Intel® Core™ i5-1345UE Processor(Project Base) Intel® Core™ i5-1335UE Processor Intel® Core™ i3-1315UE Processor Non-Embedded (15W) Intel® Core™ i7-1355U Processor(Project Base) Intel® Core™ i5-1335U Processor(Project Base) Intel® Core™ i3-1315U Processor(Project Base)
System Memory	1 x 262-Pin SO-DIMM Socket (Capacity Max. Up to 32GB DDR5 4800)
BIOS Information	AMI uEFI BIOS, 256Mbit SPI Flash ROM
Watchdog Timer	H/W Reset, 1sec. ~ 65535sec
H/W Status Monitor	Monitoring CPU Temperature, Voltage with Auto Throttling Control
TPM	TPM 2.0
iAMT	i7-1365UE & i5-1345UE
SBC	NUC-RPU

Expansion

M.2	1 x M.2 Key-E 2230 (PCIe, USB 2.0, CNVi) 1 x M.2 Key-B 2242/3042/3052 with internal SIM slot (PCIe, SATA, USB 3.0, USB 2.0) 1 x M.2 Key-M 2280 (PCIe4x4)
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Storage

M.2	1 x M.2 Key-M 2280 NVMe (PCIe Gen4x4) 1 x M.2 Key-B 2242 SSD (SATA Gen3)
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Front I/O

USB	2 x USB 2.0
Power Button	1 x Power Button with LED
COM Port	2 x RS-232/422/485 (Control by BIOS setting)
LED Indicator	1 x Storage LED (Yellow) 1 x LTE LED (Green) 1 x Wi-Fi LED (Green)
Audio	1 x Mic-In 1 x Line-Out

Rear I/O

USB	4 x USB 3.2 Gen 2x1 2 x USB 3.2 Gen1
LAN Port	2-Intel® Ethernet Controller (1GbE, 2.5GbE)
HDMI	4 x HDMI 2.0b
AC/DC Input	1 x Lockable DC Jack

Right I/O

Antenna	2 x Covered antenna hole
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Left I/O

Antenna	2 x Covered antenna hole
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Display

Graphic Chipset	Intel® 13th Gen CPU integrated
Resolution	HDMI 2.0 4096x2304@60Hz

Audio

Audio Codec	RealTek ALC888S
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Ethernet

LAN Chipset	1 x Intel® Ethernet Connection I219-LM 1 x Intel® Ethernet Controller I226-V
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Power Requirement

Voltage Input Spec.	+12Vdc
Voltage Input Connector	Lockable DC Jack
ACPI	Single power ATX support S0, S3, S4, S5
Power Mode	AT/ATX (ATX default)
Adapter	AC to DC adapter

Software Support

OS	Win10, Win11, Linux
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Certification

Certification Information	CE FCC Class B
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Mechanical & Environmental

Operating Temp.	0°C ~ 50°C (32°F ~ 122°F)
Storage Temp.	-30~70C° (-22°F ~ 158°F)
Operating Humidity	40°C @ 95% Relative Humidity, Non-condensing
Dimension (W x L x H)	170mm x 125mm x 36mm(6.69" x 4.92" x 1.42")
Weight	0.85kg
Vibration Test	With SSD: 1.5 Grms, IEC60068-2-64, Random, 5~500 Hz, 30 min/axis
Shock Test	With SSD: 55Grms, IEC 60068-2-27, IEC 60068-2-27, Half Sine, 11ms
Drop Test	ISTA 2A, IEC-60068-2-32 Test:Ed
IP Rating	IP40
Mounting Kit	Table Stand/Din Rail/VESA
Kensington Lock	1 x Kensington Lock

Assured Systems

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