

# 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

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

Expansion

<b>M.2</b>	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

<b>M.2</b>	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

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

Rear I/O

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

Right I/O

<b>Antenna</b>	2 x Covered antenna hole
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Left I/O

<b>Antenna</b>	2 x Covered antenna hole
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Display

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

Audio

<b>Audio Codec</b>	RealTek ALC888S
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**Ethernet**

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

**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

**Certification**

**Certification Information** CE FCC Class B

**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

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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