



## Thinvent Neo R/4 Mini PC

### Intel Core i5-12450H processor

8 core, up to 4.4 GHz, 12 MB cache

64GB DDR4 RAM (2 x 32GB)

128GB SSD

Dual Band WiFi

Windows 11 IoT Value

SKU: R-I5\_12H-32\_32-S128-12\_5-M-11V-0



Compact power that fits your industrial edge.

Built for the real world, not just the office: The Thinvent Neo R/4 Mini PC brings genuine workstation-class performance into a rugged, space-saving chassis. Powered by the latest Intel Core i5 processor, it handles multi-tasking and demanding applications with ease, making it ideal for digital signage, kiosks, factory-floor HMI, and edge computing tasks.

Why choose the Neo R/4? Because reliability matters. This Mini PC is engineered for 24/7 operation in challenging environments, from retail counters to warehouse control rooms. Its fanless design? Actually, it uses a quiet, efficient cooling system that keeps dust out and performance in. And with Windows 11 IoT Enterprise LTSC 2024 Value onboard, you get a secure, stable platform that stays consistent for years – no unwanted feature updates, just dependable operation.

Deploy it anywhere: VESA-mountable behind a display, tucked into a kiosk, or sat on a production line. The Neo R/4 offers versatile connectivity, including dual Gigabit Ethernet and multiple USB ports, so you can connect legacy peripherals and modern devices without hassle. Plus, dual-band Wi-Fi gives you wireless flexibility when running cables isn't an option.

Save on total cost of ownership. Low power draw, long-life components, and a compact footprint mean reduced energy bills and minimal downtime. Backed by Thinvent's industrial-grade reliability and global certifications, this is the Mini PC that works as hard as you do.

Made for professionals, built to last.



# Thinvent Neo R/4 Mini PC



## Specifications

### PROCESSING

|                 |         |
|-----------------|---------|
| Generation      | 12th    |
| Series          | i5      |
| Processor Brand | Intel   |
| Processor Model | 12450H  |
| Cores           | 8       |
| Max Frequency   | 4.4 GHz |
| Cache           | 12 MB   |
| Main Memory     | 64 GB   |
| SSD Storage     | 128 GB  |

### DISPLAY

|      |   |
|------|---|
| HDMI | 1 |
| VGA  | 1 |

### AUDIO

|             |   |
|-------------|---|
| Speaker Out | 1 |
| Mic In      | 1 |

### CONNECTIVITY

|         |   |
|---------|---|
| USB 3.2 | 2 |
| USB 2.0 | 2 |

### NETWORKING

|                     |                               |
|---------------------|-------------------------------|
| Ethernet            | 1000 Mbps                     |
| Wireless Networking | Wi-Fi 5 (802.11ac), dual band |

### POWER

|              |                                              |
|--------------|----------------------------------------------|
| DC Voltage   | 12 Volts                                     |
| DC Current   | 5 Amps                                       |
| Power Input  | 100~240 Volts AC, 50~60 Hz, 1.5 Amps maximum |
| Cable Length | 2 Metre                                      |

### ENVIRONMENTAL

|                       |                              |
|-----------------------|------------------------------|
| Operating Temperature | 0°C ~ 40°C                   |
| Operating Humidity    | 20% ~ 80% RH, non condensing |
| Certifications        | BIS, RoHS, ISO               |

### PHYSICAL

|                      |                       |
|----------------------|-----------------------|
| Form Factor          | Mini PC               |
| Dimensions           | 198mm × 200mm × 73mm  |
| Packing Dimensions   | 340mm × 235mm × 105mm |
| Weight               | 110 grams             |
| Housing Material     | Steel                 |
| Housing Finish       | Powder Coated         |
| Housing Colour       | Black                 |
| Net and Gross Weight | 1.62kg, 2.04kg        |

### OPERATING SYSTEM

|                  |                                                     |
|------------------|-----------------------------------------------------|
| Operating System | Microsoft Windows 11 IoT Enterprise LTSC 2024 Value |
|------------------|-----------------------------------------------------|

## Ordering Information

### PRODUCT CODE

**R-i5\_12H-[RAM]-[SSD]-12\_10-[Wireless]-[OS]-[Accessories]**

|             |                                         |                                         |                                      |                       |
|-------------|-----------------------------------------|-----------------------------------------|--------------------------------------|-----------------------|
| RAM         | <b>4</b> = 4GB DDR4                     | <b>8</b> = 8GB DDR4                     | <b>16</b> = 16GB DDR4                | <b>32</b> = 32GB DDR4 |
|             | <b>32_32</b> = 64GB DDR4 RAM (2 x 32GB) | <b>16_16</b> = 32GB DDR4 RAM (2 x 16GB) | <b>8_8</b> = 16GB DDR4 RAM (2 x 8GB) |                       |
| SSD         | <b>m128</b> = 128GB                     | <b>m256</b> = 256GB                     |                                      |                       |
|             | <b>m512</b> = 512GB                     | <b>m1024</b> = 1TB                      |                                      |                       |
|             | <b>S32</b> = 32GB MLC                   | <b>S128</b> = 128GB                     |                                      |                       |
|             | <b>S256</b> = 256GB                     |                                         |                                      |                       |
| Wireless    | <b>m</b> = Dual Band WiFi               | <b>X</b> = No WiFi                      |                                      |                       |
| OS          | <b>DOS</b> = DOS                        | <b>W_OS</b> = Without OS                |                                      |                       |
|             | <b>11V</b> = Windows 11 IoT Value       | <b>11P</b> = Windows 11 Pro             |                                      |                       |
|             | <b>Thinux</b> = Thinux™ Embedded Linux  | <b>U</b> = Ubuntu Linux                 |                                      |                       |
| Accessories | <b>0</b> = None                         | <b>KM</b> = Keyboard and Mouse set      |                                      |                       |
|             | <b>1S</b> = DB9 Serial                  | <b>MK</b> = Mechanical Keyboard         |                                      |                       |
|             | <b>Mo</b> = Wired Optical Scroll Mouse  |                                         |                                      |                       |

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