



# Thinvent Neo R/4 Mini PC

## Intel Core i3-1215U processor

6 core, up to 4.4 GHz, 10 MB cache

## Dual LAN

## 64GB DDR4 RAM

## 512GB SSD

## Dual Band WiFi

## Ubuntu Linux

## DB9 Serial

SKU: R-I3\_12L-64-M512-12\_5-M-U-1S



Unleash powerful control in a rugged, compact footprint.

The Thinvent Neo R/4 is the reliable, industrial-grade mini PC built for demanding environments. It delivers consistent performance to drive your critical operations, from digital signage and automation control to thin client and edge computing tasks.

### Built for the real world

- Rugged steel housing ensures durability in harsh industrial settings.
- Dual Ethernet ports provide robust, reliable network connectivity for machine control and data acquisition.

- Integrated serial port offers seamless legacy device connection, protecting your existing equipment investments.

- Pre-installed Ubuntu Linux provides a stable, secure, and open-source platform for custom software deployment.

Simplify your setup and reduce downtime with a solution designed for 24/7 reliability. The Neo R/4 is your dependable partner for creating smarter, more connected industrial applications.



## Specifications

### PROCESSING

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|                 |         |
|-----------------|---------|
| Generation      | 12th    |
| Series          | i3      |
| Processor Brand | Intel   |
| Processor Model | 1215U   |
| Cores           | 6       |
| Max Frequency   | 4.4 GHz |
| Cache           | 10 MB   |
| Main Memory     | 64 GB   |
| SSD Storage     | 512 GB  |

### DISPLAY

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

### AUDIO

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

### CONNECTIVITY

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|              |                  |
|--------------|------------------|
| USB 3.2      | 2                |
| Serial Port  | 1 DB9 male RS232 |
| RS485 Option | 1                |

### NETWORKING

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|                     |                               |
|---------------------|-------------------------------|
| Ethernet            | 1000 Mbps                     |
| Ethernet Ports      | 2                             |
| Wireless Networking | Wi-Fi 5 (802.11ac), dual band |

### POWER

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|              |                                              |
|--------------|----------------------------------------------|
| 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

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

### PHYSICAL

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|                      |                       |
|----------------------|-----------------------|
| 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 | 1.59kg, 2.01kg        |

### OPERATING SYSTEM

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|                  |                        |
|------------------|------------------------|
| Operating System | Ubuntu Linux 24.04 LTS |
|------------------|------------------------|

## Ordering Information

### PRODUCT CODE

**R-i3\_12l-[RAM]-[SSD]-12\_7-[Wireless]-[OS]-[Accessories]**

|                    |                                        |                     |                                    |                       |
|--------------------|----------------------------------------|---------------------|------------------------------------|-----------------------|
| <b>RAM</b>         | <b>4</b> = 4GB DDR4                    | <b>8</b> = 8GB DDR4 | <b>16</b> = 16GB DDR4              | <b>32</b> = 32GB DDR4 |
|                    | <b>64</b> = 64GB DDR4                  |                     |                                    |                       |
| <b>SSD</b>         | <b>m128</b> = 128GB                    |                     | <b>m256</b> = 256GB                |                       |
|                    | <b>m32</b> = 32GB                      |                     | <b>m512</b> = 512GB                |                       |
|                    | <b>m1024</b> = 1TB                     |                     | <b>S32</b> = 32GB MLC              |                       |
|                    | <b>S128</b> = 128GB                    |                     | <b>S256</b> = 256GB                |                       |
| <b>Wireless</b>    | <b>m</b> = Dual Band WiFi              |                     | <b>X</b> = No WiFi                 |                       |
| <b>OS</b>          | <b>DOS</b> = DOS                       |                     | <b>W_OS</b> = Without OS           |                       |
|                    | <b>11V</b> = Windows 11 IoT Value      |                     | <b>11P</b> = Windows 11 Pro        |                       |
|                    | <b>Thinix</b> = Thinix™ Embedded Linux |                     | <b>U</b> = Ubuntu Linux            |                       |
| <b>Accessories</b> | <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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