



# Thinvent Neo H Mini PC

## Intel Core 5 120U processor

10 core, up to 5.0 GHz, 12 MB cache

**32GB DDR4 RAM**

**256GB SSD**

**No WiFi**

**DOS**

**DB9 Serial**

SKU: H-I5\_14-32-M256-12\_5-X-DOS-1S



## Thinvent Neo H: The Industrial Powerhouse Engineered for Extreme Performance.

Experience the high-performance evolution of our bestselling Neo model with the Thinvent® Neo H Mini PC. As our largest and most powerful offering, this industrial workhorse is 100% designed and made in India, featuring a solid steel build for uncompromising durability. Perfect for demanding industrial control and similar applications, the Neo H delivers robust processing power and a host of connectivity options.

### Unmatched Performance

- Driven by an Intel® Core™ 5 120U processor, featuring 10 cores and clocking up to 5.0 GHz with a 12 MB cache, it provides exceptional speed for complex tasks.
- Benefit from rapid multi-tasking and quick boot times thanks to 4GB DDR4 RAM and a swift 128GB SSD.

### Industrial-Grade Connectivity

- Connect multiple displays with 2 HDMI and 1 VGA port.
- Access legacy systems with a dedicated DB9 male RS232 serial port.

- Enjoy stable, interference-free networking with integrated 1000 Mbps Gigabit Ethernet.
- Expand peripherals via 2 USB 3.0 and 2 USB 2.0 ports.
- Includes speaker out and mic in for audio needs.

### Built to Last

- Housed in a durable, powder-coated black steel chassis (210mm × 202mm × 80mm), designed to withstand tough environments.
- Operates reliably in temperatures from 0°C to 40°C and 20% to 80% non-condensing humidity.
- Certified with BIS, RoHS, and ISO for quality and compliance.
- Power flexibility with a 12V 7A adapter and a wide 100~275V AC input range.

The Neo H comes with FreeDOS, offering the flexibility to install your preferred industrial operating system for specialized applications.



# Thinvent Neo H Mini PC



## Specifications

### PROCESSING

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|                 |        |
|-----------------|--------|
| Generation      | 14th   |
| Series          | i5     |
| Processor Brand | Intel  |
| Processor Model | 120U   |
| Cores           | 10     |
| Max Frequency   | 5 GHz  |
| Cache           | 12 MB  |
| Main Memory     | 32 GB  |
| SSD Storage     | 256 GB |

### DISPLAY

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|      |   |
|------|---|
| HDMI | 2 |
| VGA  | 1 |

### AUDIO

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

### CONNECTIVITY

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|             |                  |
|-------------|------------------|
| USB 3.0     | 2                |
| USB 2.0     | 2                |
| Serial Port | 1 DB9 male RS232 |

### NETWORKING

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|          |           |
|----------|-----------|
| Ethernet | 1000 Mbps |
|----------|-----------|

### 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           | 210mm × 202mm × 80mm  |
| Packing Dimensions   | 340mm × 235mm × 105mm |
| Housing Material     | Steel                 |
| Housing Finish       | Powder Coated         |
| Housing Colour       | Black                 |
| Net and Gross Weight | 1.33kg, 1.75kg        |

### OPERATING SYSTEM

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|                  |         |
|------------------|---------|
| Operating System | FreeDOS |
|------------------|---------|

## Ordering Information

| PRODUCT CODE  |   |                     |  |
|---|---|---------------------|--|
| <b>H-i5_14-[RAM]-[SSD]-12_7-[Wireless]-[OS]-[Accessories]</b> |   |                     |  |
| <b>RAM</b>  | <b>4</b> = 4GB DDR4<br><b>64</b> = 64GB DDR4  | <b>8</b> = 8GB DDR4 | <b>16</b> = 16GB DDR4<br><b>32</b> = 32GB DDR4   |
| <b>SSD</b>  | <b>m128</b> = 128GB<br><b>m32</b> = 32GB<br><b>m1024</b> = 1TB<br><b>S128</b> = 128GB           |                     | <b>m256</b> = 256GB<br><b>m512</b> = 512GB<br><b>S32</b> = 32GB MLC<br><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<br><b>11V</b> = Windows 11 IoT Value<br><b>Thinix</b> = Thinix™ Embedded Linux |                     | <b>W_OS</b> = Without OS<br><b>11P</b> = Windows 11 Pro<br><b>U</b> = Ubuntu Linux         |
| <b>Accessories</b>  | <b>0</b> = None<br><b>1S</b> = DB9 Serial<br><b>Mo</b> = Wired Optical Scroll Mouse             |                     | <b>KM</b> = Keyboard and Mouse set<br><b>MK</b> = Mechanical Keyboard                      |

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