



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)

512GB SSD

No WiFi

Without OS

SKU: R-I5_12H-32_32-M512-12_7-X-W_OS-0



Powerful performance in a rugged, compact package – the Thinvent Neo R/4 Mini PC.

Built for demanding industrial environments

- The 12th-gen Intel Core i5 processor delivers responsive, efficient computing for control systems, digital signage, or kiosk applications – without taking up valuable floor space.
- Its fanless, powder-coated steel housing shrugs off dust, vibration, and temperature swings, so it keeps running reliably on the factory floor or in a busy retail setting.
- With dual USB 3.2 and gigabit Ethernet, you can connect legacy peripherals and network equipment without adaptors, simplifying integration into existing infrastructure.

Why choose the Neo R/4

- It's a straightforward, no-frills workhorse: no operating system means you install exactly what your operation needs, reducing security risks and licensing costs.

- The 12V DC power input makes it ideal for mobile or vehicle-mounted installations where clean, low-voltage power is available.
- Small enough to mount behind a display or under a desk, yet robust enough to handle 24/7 duty cycles in harsh conditions.

Perfect for

- Industrial automation controllers and SCADA front-ends
- Self-service kiosks and ticketing machines
- Digital signage players requiring reliable, continuous operation
- Embedded systems where space is tight and downtime is not an option

Experience the dependability of purpose-built industrial computing – the Thinvent Neo R/4 Mini PC puts powerful processing where you need it most, with the durability to keep your operations running smoothly.



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	512 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
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POWER

DC Voltage	12 Volts
DC Current	7 Amps
Power Input	100~275 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	1.72kg, 2.13kg

OPERATING SYSTEM

Operating System	Without OS
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Ordering Information

PRODUCT CODE

R-i5_12H-[RAM]-[SSD]-12_7-[Wireless]-[OS]-[Accessories]

RAM

4 = 4GB DDR4

8 = 8GB DDR4

16 = 16GB DDR4

32 = 32GB DDR4

32_32 = 64GB
DDR4 RAM (2 x
32GB)16_16 = 32GB
DDR4 RAM (2 x
16GB)8_8 = 16GB DDR4
RAM (2 x 8GB)

SSD

m128 = 128GB

m512 = 512GB

S32 = 32GB MLC

S256 = 256GB

m256 = 256GB

m1024 = 1TB

S128 = 128GB

Wireless

m = Dual Band WiFi

X = No WiFi

OS

DOS = DOS

11V = Windows 11 IoT Value

Thinux = Thinux™ Embedded Linux

W_OS = Without OS

11P = Windows 11 Pro

U = Ubuntu Linux

Accessories

0 = None

1S = DB9 Serial

Mo = Wired Optical Scroll Mouse

KM = Keyboard and Mouse set

MK = Mechanical Keyboard

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