



Thinvent Neo R/4 Mini PC

Intel Core i5-12450H processor

8 core, up to 4.4 GHz, 12 MB cache

32GB DDR4 RAM

1TB SSD

Dual Band WiFi

Ubuntu Linux

SKU: R-I5_12H-32-M1024-12_5-M-U-0



Serious performance in a palm-sized package.

The Thinvent Neo R/4 Mini PC brings Intel's 12th-generation Core i5 power to any desk, rack or wall – delivered in a rugged, powder-coated steel chassis that takes up almost no space. Whether you're running a busy reception, a digital signage network or a compact office workstation, this mini PC handles multitasking, web apps and light content creation with effortless efficiency.

A perfect fit for space-constrained environments

- Mount it behind a monitor or tuck it under a desk – the Neo R/4 is built for clutter-free, professional setups.
- Pre-loaded with Ubuntu Linux 24.04 LTS, it offers a stable, secure and customisable platform ideal for development, POS systems or headless servers.

- Dual-band Wi-Fi and gigabit Ethernet keep you connected reliably, while VGA and HDMI outputs let you drive two displays for extra productivity.

Why choose the Neo R/4

- Energy-efficient design with a 12V adapter means low running costs and cooler operation, even in 24/7 use.
 - Solid-state storage ensures whisper-quiet performance and fast boot times, no moving parts to worry about.
- Backed by Thinvent's ISO and RoHS certifications, this
- is a mini PC you can trust for years of dependable service.

Great things come in small packages – and the Neo R/4 proves it.



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	32 GB
SSD Storage	1024 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	Ubuntu Linux 24.04 LTS
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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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