

Intel Core i5-12450H processor

8 core, up to 4.4 GHz, 12 MB cache

32GB DDR4 RAM (2 x 16GB)

512GB SSD

No WiFi

Ubuntu Linux

Thinvent Keyboard and Mouse set



SKU: R-I5_12H-16_16-M512-12_7-X-U-KM

Powerful computing, compact footprint – the Neo R/4 Mini PC is engineered for industrial environments where reliability and performance are non-negotiable.

Purpose-built for edge computing

- Tackle complex automation tasks, digital signage, or data acquisition with ease thanks to the latest-generation Intel Core i5 processor and eight high-performance cores
- Slip this small, rugged steel chassis into tight spaces – on a factory floor, behind a kiosk, or inside a control cabinet – without sacrificing capability
- Start working straight out of the box: pre-loaded with Ubuntu Linux 24.04 LTS and paired with a Thinvent keyboard and mouse set, so you can deploy immediately

- Connect easily to legacy and modern peripherals with HDMI, VGA, dual USB 3.2, dual USB 2.0, and a gigabit Ethernet port
- Save energy and simplify installation with a low-voltage 12V DC power supply, keeping heat and noise to a minimum

Why professionals choose Thinvent

- Every unit is built from powder-coated steel for durability and certified to BIS, RoHS, and ISO standards – quality you can trust
- Backed by decades of industrial computing expertise, the Neo R/4 is a direct, worry-free alternative to other compact PCs on the market

Designed for continuous duty

- Run 24/7 in demanding conditions – the Neo R/4 operates reliably between 0°C and 40°C, perfect for unventilated or warm environments

Equip your next project with a mini PC that delivers genuine industrial-grade performance – no compromises, no unnecessary complexity.



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	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	2.23kg, 2.65kg

ACCESSORIES

Keyboard and Mouse	1
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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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