



Thinvent Neo R/4 Mini PC

Intel Core i5-12450H processor

8 core, up to 4.4 GHz, 12 MB cache

16GB DDR4 RAM

32GB MLC SSD

No WiFi

Windows 11 IoT Value

SKU: R-I5_12H-16-S32-12_5-X-11V-0



Rugged reliability in a compact package.

Built for demanding industrial environments where ordinary PCs falter

- Deploy alongside machinery, in factory control cabinets, or at retail checkouts without worry
- Fanless design means silent operation and zero dust ingress, even in dusty workshops
- Wide input voltage tolerance protects against unstable mains power, keeping your operations running smoothly
- Steel chassis with powder-coated finish withstands vibration, knocks, and temperature swings from 0°C to 40°C

A genuine workhorse for embedded and dedicated applications

- Run a single-purpose application – POS system, digital signage player, or machine controller – without bloat or distraction

- Pre-loaded with Windows 11 IoT Enterprise LTSC ensures a locked-down, long-term stable platform, reducing IT maintenance
- Dual display outputs (HDMI + VGA) let you mirror or extend screens for monitoring and operator interfaces

Why choose the Thinvent Neo R/4? It delivers industrial-grade dependability at a price that makes sense for volume deployments. No unnecessary extras like WiFi or large SSDs – you pay only for what you truly need. With BIS, RoHS, and ISO certifications, this mini PC meets the standards that matter for professional environments.

Trust Thinvent's decades of expertise in industrial computing – your operations deserve hardware that just works, day in, day out.



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	16 GB
SSD Storage	32 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	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	Microsoft Windows 11 IoT Enterprise LTSC 2024 Value
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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

www.thinvent.insales@thinvent.in

+91-11-430-77467

 +91-99903-44251

R&D and Manufacturing

#11 Sports Complex

Salvador Do Mundo

North Goa - 403101, India

Sales

UGF-10-A Omaxe Gurgaon Mall

Sector 49, Sohna Road

Gurgaon - 122018, India

