



Thinvent Neo H Mini PC

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

Without OS

Thinvent Keyboard and Mouse set

SKU: H-I5_12H-16_16-M512-12_7-X-W_OS-KM



Power your industrial operations with uncompromising reliability.

The Thinvent Neo H Mini PC is the high-performance flagship of our bestselling Neo series, engineered to handle the toughest industrial control and automation tasks. This is not a compromise – it is a workhorse built to run continuously in challenging environments, from factory floors to embedded systems.

Every unit is 100% designed and made in India using a solid steel chassis that shrugs off vibration, dust, and physical knocks. Inside, the powerful 12th generation Core i5 processor delivers the raw compute muscle your demanding applications need, without wasteful energy spikes. Meanwhile, the generous connectivity options – including dual USB 3.2 ports and dual video outputs – let you connect legacy equipment alongside modern displays, all without expensive adapters.

We know reliability is non-negotiable in industrial settings. That is why the Neo H runs on a stable 12V DC supply, perfect for 24/7 operation, and why we equip it with a wired Ethernet port rather than fickle wireless. The included Thinvent keyboard and mouse get you started from the moment it arrives, and the bare-metal OS approach means you can load exactly the environment you need – whether that is a lightweight Linux, a custom embedded OS, or a full Windows installation.

Choose the Thinvent Neo H when uptime matters, when a standard desktop simply will not do, and when you need a mini PC that works as hard as you do.



Thinvent Neo H 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	210mm × 202mm × 80mm
Packing Dimensions	340mm × 235mm × 105mm
Housing Material	Steel
Housing Finish	Powder Coated
Housing Colour	Black
Net and Gross Weight	2.34kg, 2.76kg

ACCESSORIES

Keyboard and Mouse	1
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OPERATING SYSTEM

Operating System	Without OS
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Ordering Information

PRODUCT CODE

H-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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