



Thinvent Neo H Mini PC

Intel Core i5-12450H processor

8 core, up to 4.4 GHz, 12 MB cache

32GB DDR4 RAM

256GB SSD

No WiFi

Ubuntu Linux

Thinvent Keyboard and Mouse set

SKU: H-I5_12H-32-S256-12_7-X-U-KM



Industrial strength, refined for the modern workshop.

Built to master the toughest industrial environments, the Thinvent Neo H Mini PC is the high-performance edition of our best-selling Neo series. This is more than a computer – it's a reliable workhorse designed for continuous, demanding tasks like machine control, data acquisition, and automation.

Every component is chosen for endurance. Powered by a formidable eight-core processor, the Neo H handles complex calculations and multitasking without breaking stride. The robust solid steel chassis shrugs off vibration, dust, and the knocks of a busy factory floor, while the power-efficient design keeps it running cool and quiet.

Why choose the Thinvent Neo H for your next project?

- Purpose-built for industrial control: VGA and HDMI outputs let you connect to older and modern displays, while dual Ethernet, USB 3.2, and USB 2.0 ports give you the flexibility to link sensors, PLCs, and peripherals.

- Engineered for long life: With a stable 12V DC input, passive reliability, and a powder-coated steel housing, this mini PC is designed for years of round-the-clock operation.
- Pre-loaded with Ubuntu Linux 24.04 LTS: A secure, stable, and virus-resistant operating system – ideal for embedded and headless applications. No unnecessary bloatware, just a clean foundation for your software stack.
- Designed and manufactured in India: Backed by BIS, RoHS, and ISO certifications, the Neo H is built with uncompromising quality you can trust.
- Complete out of the box: Each unit includes a Thinvent keyboard and mouse set, so you can start deploying immediately – no extra hassle.

For engineers, integrators, and manufacturers who need uncompromising performance in a compact, rugged form factor, the Thinvent Neo H is the professional's choice. It's not just a mini PC – it's the heart of your next industrial solution.



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	256 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	Ubuntu Linux 24.04 LTS
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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

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

