



Thinvent Neo H Mini PC

Intel Core i5-12450H processor

8 core, up to 4.4 GHz, 12 MB cache

8GB DDR4 RAM

512GB SSD

Dual Band WiFi

DOS

SKU: H-I5_12H-8-M512-12_5-M-DOS-0



Raw power, compact form: the industrial workhorse that never quits.

The Neo H is the high-performance flagship of our bestselling Neo series, engineered for the most demanding industrial control and automation tasks. This is not just a mini PC – it is a solid steel fortress of computing, built to handle 24/7 operation in harsh environments. Every unit is 100% designed and made in India, ensuring exceptional quality and support.

Why choose the Neo H for your next deployment?

- Unmatched processing muscle for real-time control, data logging, and complex automation algorithms
- Generous memory and storage capacity to run multiple industrial applications without lag

- A rich array of ports – including HDMI and VGA for legacy displays – so you can connect sensors, HMIs, and peripherals effortlessly
- Dual-band Wi-Fi and Gigabit Ethernet for flexible, reliable networking in the factory or field
- Powder-coated steel chassis that withstands vibration, dust, and temperature fluctuations – built to last
- Compact footprint that fits into tight control cabinets, kiosks, or embedded systems

Whether you are upgrading a production line, building a smart kiosk, or deploying a rugged edge controller, the Thinvent Neo H delivers the performance and dependability you need. No frills, no gimmicks – just solid, industrial-grade computing you can trust.

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	8 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
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	210mm × 202mm × 80mm
Packing Dimensions	340mm × 235mm × 105mm
Housing Material	Steel
Housing Finish	Powder Coated
Housing Colour	Black
Net and Gross Weight	1.73kg, 2.14kg

OPERATING SYSTEM

Operating System	FreeDOS
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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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