



Thinvent Neo H Mini PC

Intel Core i5-12450H processor

8 core, up to 4.4 GHz, 12 MB cache

16GB DDR4 RAM

512GB SSD

Dual Band WiFi

Windows 11 IoT Value

SKU: H-I5_12H-16-M512-12_5-M-11V-0



The powerhouse your industrial operation has been waiting for.

Built for the toughest shifts and the most demanding control systems, the Thinvent Neo H Mini PC brings workstation-class performance to the factory floor. As the high-performance evolution of our bestselling Neo series, it is our largest and most capable model — a genuine industrial workhorse that handles complex automation, real-time data processing, and multi-tasking without breaking a sweat.

Why choose the Neo H for your next deployment

- Uncompromising performance for industrial control: the powerful 12th-generation processor and generous memory configuration let you run SCADA, HMI, and edge computing applications with seamless responsiveness.
- A connectivity hub at your fingertips: with multiple USB ports, full Gigabit Ethernet, and both HDMI and VGA outputs, you can connect to legacy machinery, modern displays, and peripheral devices without adapters — keeping your integration simple and your costs low.

- Built to last in demanding environments: housed in a solid steel, powder-coated chassis, this Mini PC is designed to resist vibration, dust, and the knocks of daily industrial life. It operates reliably in temperatures from 0°C to 40°C, so it's ready for the workshop, warehouse, or control cabinet.
- 100% designed and made in India: every Neo H is engineered and manufactured right here, ensuring fast support, local compliance, and a supply chain you can trust. Certification to BIS, RoHS, and ISO standards means it meets the quality benchmarks your projects demand.
- Ready to run from the box: pre-loaded with Windows 11 IoT Enterprise LTSC 2024 Value, it delivers a stable, long-term platform for your software stack — no additional setup headaches.

Whether you're replacing an ageing panel PC or building a new production line, the Neo H gives you the performance, durability, and connectivity your factory needs. It's simply the right tool for the job.

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	16 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	Microsoft Windows 11 IoT Enterprise LTSC 2024 Value
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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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