

Intel Core i5-12450H processor

8 core, up to 4.4 GHz, 12 MB cache

16GB DDR4 RAM (2 x 8GB)

128GB SSD

No WiFi

DOS

SKU: H-I5_12H-8_8-M128-12_5-X-DOS-0



When reliability meets raw power – the Thinvent Neo H Mini PC is your industrial workhorse.

Why the Neo H stands apart

- This is the high-performance flagship of our acclaimed Neo range, built for tasks that demand more from a compact system
- Powered by a robust 12th-generation Intel Core i5 processor with eight cores, it handles compute-intensive applications without breaking a sweat
- Generous connectivity – multiple USB ports, HDMI, VGA, gigabit Ethernet – means you can hook up legacy machinery and modern peripherals with ease
- Its solid steel chassis and powder-coated finish are engineered to withstand the bumps and knocks of a factory floor or control cabinet

Benefits for your operation

- Streamline industrial control, data acquisition, or edge computing without the bulk or noise of a traditional tower
- Run multiple monitoring or automation tasks simultaneously thanks to the capable processor and expandable memory

- Eliminate downtime – the Neo H runs reliably in ambient temperatures up to 40°C and non-condensing humidity, so it keeps working when conditions get tough

Ready for demanding environments

- Designed and manufactured entirely in India, giving you assured supply chain and local support
- The included 12V DC adapter ensures stable power delivery, while the 2-metre cable offers flexible placement
- Delivered with FreeDOS – you choose the operating system that fits your existing infrastructure, saving on licensing costs

Choose the Neo H for peace of mind

- Its steel construction and powder-coated exterior resist corrosion and minor impacts, protecting your investment
- With certification to BIS, RoHS and ISO standards, you can trust it meets rigorous quality and safety benchmarks
- A compact and lightweight footprint – just 1.73 kg – makes installation in tight spaces or on mobile carts straightforward



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	128 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	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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