



Thinvent Neo H Mini PC

Intel Core i3-1215U processor

6 core, up to 4.4 GHz, 10 MB cache

8GB DDR4 RAM

512GB SSD

Dual Band WiFi

Windows 11 IoT Value

DB9 Serial

SKU: H-I3_12-8-M512-12_5-M-11V-1S



Unyielding Power, Unmatched Reliability: The Thinvent® Neo H Mini PC.

Introduction

Experience the pinnacle of industrial computing with the Thinvent® Neo H Mini PC, the high-performance evolution of our bestselling Neo series. As our most powerful offering in the Neo lineup, this robust, 100% Designed and Made in India industrial workhorse boasts a solid steel build, ensuring enduring reliability in the most demanding environments.

Performance

Engineered for supreme power, the Neo H features an Intel® Core™ i3-1215U processor with 6 cores and a blazing 4.4 GHz turbo frequency, complemented by a substantial 10 MB cache. Paired with a massive 32GB DDR4 RAM and a rapid 128GB SSD, it delivers exceptional multitasking capabilities and lightning-fast responsiveness for critical applications. Running on Microsoft Windows 11 IoT Enterprise LTSC 2024 Value, it offers a secure, stable, and long-term supported platform perfect for industrial control.

Connectivity & Versatility

A host of connectivity options makes the Neo H incredibly versatile

- Seamlessly connect to displays with 1 HDMI and 1 VGA port.
- Enjoy high-speed data transfer and peripheral support with 2 USB 3.2 and 2 USB 2.0 ports.
- Essential for industrial applications, a dedicated DB9 male RS232 serial port is included.
- Stay connected with 1000 Mbps Ethernet and dual-band Wi-Fi 5 (802.11ac) for reliable wireless networking.
- Audio needs are covered with Speaker Out and Mic In.

Industrial Grade Durability

Crafted from durable black powder-coated steel, its robust housing protects against harsh conditions. Certified with BIS, RoHS, and ISO, the Neo H operates reliably from 0°C to 40°C and 20% to 80% non-condensing humidity. Measuring just 210mm × 202mm × 80mm, this compact powerhouse comes with a reliable 12V 7A adapter and a 2-metre cable, ready for immediate deployment.

Thinvent Neo H Mini PC



Specifications

PROCESSING

Generation	12th
Series	i3
Processor Brand	Intel
Processor Model	1215U
Cores	6
Max Frequency	4.4 GHz
Cache	10 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
Serial Port	1 DB9 male RS232
RS485 Option	1

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	1.69kg, 2.11kg

OPERATING SYSTEM

Operating System	Microsoft Windows 11 IoT Enterprise LTSC 2024 Value
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Ordering Information

PRODUCT CODE

H-i3_12-[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

Thinix = Thinix™ 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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