Thinvent Neo H Mini PC

Intel Core i7-12700 processor

12 core, up to 4.9 GHz, 25 MB cache

8GB DDR4 RAM

2TB SSD

Dual Band WiFi

Thinux Embedded Linux

DB9 Serial

SKU: H-I7_12D-8-M2048-19_7-M-THINUX-1S

Power Where It Counts: The Neo H Mini PC Brings Desktop-Class Performance to Industrial Work

Meet the High Performance version of our bestselling Neo range. The Thinvent Neo H pairs an Intel Core i7-12700 processor with a 12th Generation design built to handle demanding industrial tasks with confidence, making it the largest and most capable member of the Neo family.

Built for demanding environments

The Neo H is an industrial workhorse, engineered to keep control applications running smoothly around the clock. Its steel base and aluminium cover, finished in durable black powder coating, give it a sturdy, professional presence on the factory floor or in the control room.

Connectivity that keeps your systems talking

- Two HDMI and one DisplayPort output for flexible multi-screen monitoring
- Two USB 3.2 Gen 2 and two USB 3.2 Gen 1 ports for fast peripheral connections
- A DB9 serial port for connecting legacy and industrial equipment
- Gigabit Ethernet and dual-band Wi-Fi for reliable network access
- Audio outputs and a microphone input for voice and video communication

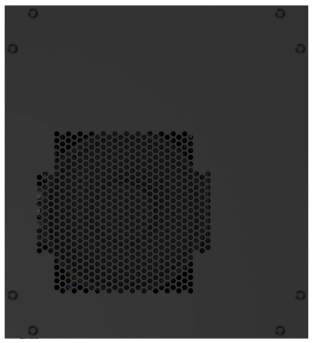
Ready for real-world applications

Run Java, Python and glibc-based applications on Thinvent's Thinux Embedded Linux platform, with Chromium and Firefox browsers, LibreOffice and a PDF viewer included. Manage systems remotely through RDP, SSH, VNC shadowing and browser-based tools, and take advantage of SIP video and voice over IP for seamless communication.

Designed and made in India

Every Neo H is 100% designed and made in India, backed by Thinvent's commitment to quality engineering.

Choose the Neo H when your application needs serious processing power, dependable connectivity and a rugged build that is ready for industrial control and similar demanding work.



Thinvent Neo H Mini PC

Specifications

PROCESSING

Generation	12th
Series	i7
Processor Brand	Intel
Processor Model	12700
Cores	12
Max Frequency	4.9 GHz
Cache	25 MB
Chipset	Intel B760
TPM	TPM 2.0 header
Main Memory	8 GB
SSD Storage	2048 GB

DISPLAY

HDMI	2
DisplayPort	1

AUDIO

Speaker Out	1
Mic In	1

CONNECTIVITY

USB 3.2 Gen 2	2
USB 3.2 Gen 1	2
Serial Port	1 DB9 male RS232

NETWORKING

Ethernet	1000 Mbps
Wireless Networking	Wi-Fi 5 (802.11ac), dual band

POWER

DC Voltage	19 Volts
DC Current	7 Amps
Power Input	100~240 Volts AC, 50~60 Hz, 1.5 Amps maximum
Cable Length	1.5 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	181.5mm × 199.5mm × 72mm
Packing Dimensions	340mm × 235mm × 105mm
Housing Material	Steel base, aluminium cover
Housing Finish	Powder Coated
Housing Colour	Black
Net and Gross Weight	0.91kg, 1.32kg

OPERATING SYSTEM

Operating System	Thinvent® Thinux™ Embedded Linux
OS Features	Chromium and Mozilla Firefox browsers. RDP 10 (RemoteFX, H.264/AVC), Putty and SSH for remote display. Browser based remote management. VNC shadowing. Java, Python and glibc based location application support. LibreOffice and PDF viewer. Multimedia player with MPEG4 support. SIP video and voice over IP.

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Ordering Information

PRODUCT CODE

`H-i7_12d-[RAM]-[SSD]-19_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		**m256** = 256GB	
	m512 = 512GB		**m1024** = 1TB	
	m2048 = 2TB		**S32** = 32GB MLC	
	S128 = 128GB		**S256** = 256GB	
	m128_S128 = Dual 128GB		**m128_S32** = 128GB SSD + 32 GB MLC	
	S128_S32 = 128GB SSD + 32 GB MLC		**S128_S128** = 128GB SSD + 128 GB MLC	
	m32_S32 = 32GB SSD + 32 GB MLC		**S32_S32** = 32GB MLC SSD + 32 GB MLC	
	h1024 = 1TB HDD		**n512_h1024** = 512GB NVMe SSD + 1TB HDD	
	n1024_h1024 = 1TB NVMe SSD + 1TB HDD			
Wireless	**m** = Dual Band WiFi		**X** = No WiFi	
OS	**DOS** = DOS		**W_OS** = Without OS	
	11V = Windows 11 IoT Value		**11P** = Windows 11 Pro	
	11O = Windows 11 Professional		**Thinux** = Thinux™ Embedded Linux	
	U = Ubuntu Linux			
Accessories	**0** = None		**KM** = Keyboard and Mouse set	
	1S = DB9 Serial		**MK** = Mechanical Keyboard	
	Mo = Wired Optical Scroll Mouse			

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