

Intel Core i3-1215U processor

6 core, up to 4.4 GHz, 10 MB cache

Dual LAN

16GB DDR4 RAM

256GB SSD

No WiFi

Ubuntu Linux

DB9 Serial



SKU: R-I3_12L-16-M256-12_5-X-U-1S

Built for business, not the boardroom. The Thinvent® Neo R/4 is the robust, reliable heart of your industrial operation, delivering steadfast performance where it matters most.

Perfect for demanding environments

- Acts as a dedicated controller for factory automation, silently managing machinery without fail.
- Serves as the ideal digital signage player, driving displays in retail or public spaces with unwavering stability.
- Functions as a compact network gateway or firewall, with dual Ethernet ports for secure, reliable connectivity.
- Provides a powerful, low-maintenance platform for kiosks, thin clients, and custom Linux-based applications.

Why choose the Neo R/4?

Its fanless, steel-clad design thrives in harsh conditions, resisting dust and vibration for non-stop operation. The energy-efficient Intel® Core™ processor handles multiple tasks effortlessly, while the industrial-grade serial port ensures seamless communication with legacy equipment. Pre-installed with Ubuntu Linux, it offers a secure, open-source foundation ready for immediate deployment. This is computing stripped back to pure, purposeful reliability.



Specifications

PROCESSING

Generation	12th
Series	i3
Processor Brand	Intel
Processor Model	1215U
Cores	6
Max Frequency	4.4 GHz
Cache	10 MB
Main Memory	16 GB
SSD Storage	256 GB

DISPLAY

HDMI	1
VGA	1

AUDIO

Speaker Out	1
Mic In	1

CONNECTIVITY

USB 3.2	2
Serial Port	1 DB9 male RS232
RS485 Option	1

NETWORKING

Ethernet	1000 Mbps
Ethernet Ports	2

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	198mm × 200mm × 73mm
Packing Dimensions	340mm × 235mm × 105mm
Weight	110 grams
Housing Material	Steel
Housing Finish	Powder Coated
Housing Colour	Black
Net and Gross Weight	1.59kg, 2.01kg

OPERATING SYSTEM

Operating System	Ubuntu Linux 24.04 LTS
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Ordering Information

PRODUCT CODE	
R-i3_12l-[RAM]-[SSD]-12_7-[Wireless]-[OS]-[Accessories]	
RAM	4 = 4GB DDR4 8 = 8GB DDR4 16 = 16GB DDR4 32 = 32GB DDR4 64 = 64GB DDR4
SSD	m128 = 128GB m256 = 256GB m32 = 32GB m512 = 512GB m1024 = 1TB S32 = 32GB MLC S128 = 128GB S256 = 256GB
Wireless	m = Dual Band WiFi X = No WiFi
OS	DOS = DOS W_OS = Without OS 11V = Windows 11 IoT Value 11P = Windows 11 Pro Thinix = Thinix™ 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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