



Thinvent Aero Mini PC

Intel Core i7-1255U processor

10 core, up to 4.7 GHz, 12 MB cache

Dual LAN

16GB DDR4 RAM (2 x 8GB)

32GB MLC SSD

Dual Band WiFi

Ubuntu Linux

SKU: AERO-I7_12L-8_8-S32-12_5-M-U-0



Unleash professional power from a compact powerhouse.

Engineered for Demanding Environments

The Thinvent® Aero Mini PC is built to drive your critical operations without compromise. Its robust, fanless steel chassis delivers silent and reliable computing power wherever you need it, from the factory floor to the digital signage network.

Effortless Connectivity, Uninterrupted Workflow

With dual Gigabit Ethernet ports and comprehensive wireless connectivity, this system ensures your applications stay online and your data flows seamlessly. It's the dependable hub for a multitude of industrial peripherals and IoT devices.

Ready for Action with Open-Source Efficiency

Pre-installed with a stable Ubuntu LTS operating system, the Aero Mini PC offers a secure, flexible, and cost-effective platform. It's ready to run your custom software stacks, from automation controllers to interactive kiosks, right out of the box.

Perfect for Your Industrial and Commercial Vision

- Deploy as a ruggedised control unit for manufacturing equipment.
- Power multiple high-definition displays for dynamic advertising.
- Serve as the compact brain for security and surveillance systems.
- Run resource-intensive monitoring and data acquisition software silently.

Choose the Thinvent Aero Mini PC. Where formidable Intel® Core™ performance meets industrial resilience in a space-saving design.



Thinvent Aero Mini PC



Specifications

PROCESSING

Generation	12th
Series	i7
Processor Brand	Intel
Processor Model	1255U
Cores	10
Max Frequency	4.7 GHz
Cache	12 MB
Main Memory	16 GB
SSD Storage	32 GB

DISPLAY

HDMI	1
VGA	1

AUDIO

Speaker Out	1
Mic In	1
Front Speaker Out	1
Front Mic In	1

CONNECTIVITY

USB 3.2	2
Front USB 2.0	4
Front USB C	1
RS485 Option	1

NETWORKING

Ethernet	1000 Mbps
Ethernet Ports	2
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 ~ 35°C
Operating Humidity	20% ~ 80% RH, non condensing
Certifications	BIS, RoHS, ISO

PHYSICAL

Form Factor	Mini PC
Dimensions	198mm × 187mm × 40mm
Housing Material	Steel and ABS Plastic
Housing Finish	Powder Coated
Housing Colour	Black
Net and Gross Weight	1.62kg, 1.62kg

OPERATING SYSTEM

Operating System	Ubuntu Linux 24.04 LTS
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Ordering Information

PRODUCT CODE

Aero-i7_12l-[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

MK = Mechanical Keyboard

KM = Keyboard and Mouse set

Mo = Wired Optical Scroll Mouse

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