



# Thinvent Aero Mini PC

## Intel Core i7-1255U processor

10 core, up to 4.7 GHz, 12 MB cache

## Dual LAN

64GB DDR4 RAM (2 x 32GB)

## 512GB SSD

## No WiFi

## Ubuntu Linux

SKU: AERO-I7\_12L-32\_32-M512-12\_5-X-U-0



Engineer your operations with serious compact power.

### Powerhouse Performance in a Miniature Frame

- Experience desktop-calibre processing power for demanding industrial applications, all from a remarkably small footprint that saves crucial space in control cabinets and on the factory floor.
- Tackle complex computational tasks, data processing, and machine control with seamless efficiency, ensuring your systems run smoothly without interruption.

### Built for Demanding Industrial Environments

- Rely on robust, fanless construction designed to withstand vibration, dust, and extended operation in challenging conditions from 0°C to 35°C.

- Enjoy ultimate connectivity flexibility with dual Gigabit Ethernet ports for reliable network integration and a comprehensive array of front-facing USB ports for easy peripheral access.

### Simplify Your System with a Ready-to-Run Solution

- Step into productivity immediately with the stable and secure Ubuntu Linux OS pre-installed, offering a powerful and open platform for software development and deployment.
- Deploy with confidence knowing the unit meets rigorous BIS and RoHS certifications, assuring quality and compliance for professional use.

Ideal for rugged digital signage, automation controllers, thin clients, or as a dedicated edge computing node. The Thinvent Aero Mini PC delivers unwavering reliability where it matters most.



## Specifications

### PROCESSING

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Generation	12th
Series	i7
Processor Brand	Intel
Processor Model	1255U
Cores	10
Max Frequency	4.7 GHz
Cache	12 MB
Main Memory	64 GB
SSD Storage	512 GB

### DISPLAY

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HDMI	1
VGA	1

### AUDIO

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

### CONNECTIVITY

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

### NETWORKING

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Ethernet	1000 Mbps
Ethernet Ports	2

### POWER

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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

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Operating Temperature	0°C ~ 35°C
Operating Humidity	20% ~ 80% RH, non condensing
Certifications	BIS, RoHS, ISO

### PHYSICAL

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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

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Operating System	Ubuntu Linux 24.04 LTS
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## Ordering Information

PRODUCT CODE	
<b>Aero-i7_12l-[RAM]-[SSD]-12_7-[Wireless]-[OS]-[Accessories]</b>	
<b>RAM</b>	<div style="display: flex; justify-content: space-between;"> <div style="width: 22%;"> <p><b>4</b> = 4GB DDR4</p> <p><b>32_32</b> = 64GB DDR4 RAM (2 x 32GB)</p> </div> <div style="width: 22%;"> <p><b>8</b> = 8GB DDR4</p> <p><b>16_16</b> = 32GB DDR4 RAM (2 x 16GB)</p> </div> <div style="width: 22%;"> <p><b>16</b> = 16GB DDR4</p> <p><b>8_8</b> = 16GB DDR4 RAM (2 x 8GB)</p> </div> <div style="width: 22%;"> <p><b>32</b> = 32GB DDR4</p> </div> </div>
<b>SSD</b>	<div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <p><b>m128</b> = 128GB</p> <p><b>m512</b> = 512GB</p> <p><b>S32</b> = 32GB MLC</p> <p><b>S256</b> = 256GB</p> </div> <div style="width: 48%;"> <p><b>m256</b> = 256GB</p> <p><b>m1024</b> = 1TB</p> <p><b>S128</b> = 128GB</p> </div> </div>
<b>Wireless</b>	<div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <p><b>m</b> = Dual Band WiFi</p> </div> <div style="width: 48%;"> <p><b>X</b> = No WiFi</p> </div> </div>
<b>OS</b>	<div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <p><b>DOS</b> = DOS</p> <p><b>11V</b> = Windows 11 IoT Value</p> <p><b>Thinix</b> = Thinix™ Embedded Linux</p> </div> <div style="width: 48%;"> <p><b>W_OS</b> = Without OS</p> <p><b>11P</b> = Windows 11 Pro</p> <p><b>U</b> = Ubuntu Linux</p> </div> </div>
<b>Accessories</b>	<div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <p><b>0</b> = None</p> <p><b>MK</b> = Mechanical Keyboard</p> </div> <div style="width: 48%;"> <p><b>KM</b> = Keyboard and Mouse set</p> <p><b>Mo</b> = Wired Optical Scroll Mouse</p> </div> </div>

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