



Thinvent Industrial PC IPC5

Intel Core 5 120U processor

10 core, up to 5.0 GHz, 12 MB cache

64GB DDR4 RAM

32GB SSD

Dual Band WiFi

Ubuntu Linux

SKU: IPC5-I5_14-64-M32-12_5-M-U-0



Unyielding Power, Unmatched Precision: The Future of Industrial Computing.

Introducing the Thinvent® Industrial PC IPC5: a high-performance, rugged, and fanless powerhouse, meticulously designed and 100% made in India for the most demanding industrial environments. Its dark grey anodized aluminum housing not only ensures durability but also offers a sleek, professional finish.

Unrivalled Performance

At its core, the Intel® Core™ 5 120U processor delivers blistering speed and efficiency with

- 10 Cores
- Up to 5.0 GHz Max Frequency
- 12 MB Cache

Paired with 16GB DDR4 RAM and a blazing-fast 512GB SSD, the IPC5 is engineered for

- Advanced industrial automation
- High-precision machine vision
- Demanding edge computing applications

Built for the Toughest Conditions

The IPC5's robust fanless design guarantees silent, maintenance-free operation and extreme reliability, enduring temperatures from 0°C to 50°C and humidity from 20% to 80% RH. Certified with RoHS and ISO, it meets stringent quality and environmental standards.

Extensive Connectivity

Power your entire setup with a comprehensive array of I/O options

- 2 HDMI and 1 VGA for versatile display configurations
- 2 USB 3.0 and 2 USB 2.0 ports for peripheral expansion
- 1000 Mbps Ethernet for robust wired networking
- Dual-band Wi-Fi 5 (802.11ac) for flexible wireless connectivity
- Speaker Out and Mic In ports

Ready for Deployment

Running on the stable and secure Ubuntu Linux 24.04 LTS, the IPC5 offers a reliable software foundation. It features a compact 197mm x 210mm x 65mm form factor and draws power from a 12V 7A adapter with a wide 100~275V AC input range, ensuring global compatibility and ease of integration.



Specifications

PROCESSING

| | |
|-----------------|-------|
| Generation | 14th |
| Series | i5 |
| Processor Brand | Intel |
| Processor Model | 120U |
| Cores | 10 |
| Max Frequency | 5 GHz |
| Cache | 12 MB |
| Main Memory | 64 GB |
| SSD Storage | 32 GB |

DISPLAY

| | |
|------|---|
| HDMI | 2 |
| VGA | 1 |

AUDIO

| | |
|-------------------|---|
| Speaker Out | 1 |
| Mic In | 1 |
| Front Speaker Out | 1 |
| Front Mic In | 1 |

CONNECTIVITY

| | |
|-------------------|------------------|
| USB 3.0 | 2 |
| USB 2.0 | 2 |
| Front USB 2.0 | 3 |
| Front Serial Port | 2 DB9 male RS232 |

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 ~ 50°C |
| Operating Humidity | 20% ~ 80% RH, non condensing |
| Certifications | RoHS, ISO |

PHYSICAL

| | |
|----------------------|-------------------------|
| Form Factor | Industrial PC |
| Thermal Design | Fanless Passive Cooling |
| Dimensions | 197mm × 210mm × 65mm |
| Packing Dimensions | 340mm × 235mm × 105mm |
| Housing Material | Aluminium |
| Housing Finish | Anodised |
| Housing Colour | Dark Grey |
| Net and Gross Weight | 2.43kg, 2.85kg |

OPERATING SYSTEM

| | |
|------------------|------------------------|
| Operating System | Ubuntu Linux 24.04 LTS |
|------------------|------------------------|

Ordering Information

| PRODUCT CODE | |
|--|--|
| IPC5-i5_14-[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 |
| Wireless | m = Dual Band WiFi X = No WiFi |
| OS | DOS = DOS W_OS = Without OS 11V = Windows 11 IoT Value 11P = Windows 11 Pro Thinux = Thinux™ Embedded Linux U = Ubuntu Linux |
| Accessories | 0 = None 4S = Quad DB9 Serial |

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