



Thinvent Industrial PC IPC5

Intel Core 5 120U processor

10 core, up to 5.0 GHz, 12 MB cache

32GB DDR4 RAM

512GB SSD

Dual Band WiFi

Windows 11 Pro

SKU: IPC5-I5_14-32-M512-12_5-M-11P-0



Thinvent IPC5: Unyielding Power, Unmatched Resilience for Tomorrow's Industry

Experience the pinnacle of industrial computing with the Thinvent® Industrial PC IPC5. 100% designed in India, this high-performance, rugged, and fanless IPC is engineered for the most demanding environments, delivering robust power and exceptional reliability right where you need it most. Its sleek, dark grey anodised aluminium housing ensures both a smooth, professional finish and unparalleled durability.

Unleash Performance

- At its core, an Intel® Core™ 5 120U processor with 10 cores and speeds up to 5.0 GHz, backed by a 12 MB cache, provides the raw processing power for advanced industrial automation, complex machine vision tasks, and sophisticated edge computing.
- With 16GB of DDR4 RAM and a lightning-fast 256GB SSD, the IPC5 ensures seamless multitasking and rapid data access, enhancing operational efficiency.
- Pre-installed with Microsoft Windows 11 Pro, it offers a familiar, secure, and powerful operating environment.

Built for the Edge

- Its rugged, fanless design eliminates dust ingress and reduces maintenance, allowing it to thrive in challenging conditions from 0°C to 50°C and 20% ~ 80% RH.
- Certified with RoHS and ISO standards, the IPC5 guarantees quality and environmental compliance.

Seamless Connectivity

- Stay connected with dual-band Wi-Fi 5 (802.11ac) and a 1000 Mbps Ethernet port for robust and reliable networking.
- Extensive I/O includes 2 HDMI and 1 VGA for versatile multi-display options, 2 USB 3.0, 2 USB 2.0, Speaker Out, and Mic In, ensuring comprehensive peripheral integration.

The Thinvent IPC5 is your robust, high-performance solution, purpose-built to drive innovation in critical industrial applications.



Specifications

PROCESSING

| | |
|-----------------|--------|
| Generation | 14th |
| Series | i5 |
| Processor Brand | Intel |
| Processor Model | 120U |
| Cores | 10 |
| Max Frequency | 5 GHz |
| Cache | 12 MB |
| Main Memory | 32 GB |
| SSD Storage | 512 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 | Microsoft Windows 11 Pro |
|------------------|--------------------------|

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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