



Thinvent Industrial PC IPC5

Intel Core i5-1240P processor

12 core, up to 4.4 GHz, 12 MB cache

16GB DDR4 RAM

512GB SSD

Dual Band WiFi

DOS

SKU: IPC5-I5_12-16-M512-12_5-M-DOS-0



Unleash Unrivaled Performance at the Industrial Edge

Experience the future of industrial computing with the Thinvent® Industrial PC IPC5, a powerhouse meticulously engineered and 100% designed in India. This high-performance, fanless rugged IPC is built for the most demanding environments, delivering exceptional reliability and speed for advanced industrial automation, machine vision, and edge computing applications.

Peak Performance for Critical Tasks

At its core lies the Intel® Core™ i5-1250P processor, boasting a formidable 12 cores and bursting up to 4.4 GHz with 12 MB cache, ensuring seamless execution of complex operations. Paired with 4GB DDR4 RAM and a rapid 256GB SSD, the IPC5 guarantees lightning-fast boot-ups, responsive multitasking, and efficient data handling.

Robust and Connected

The IPC5 is engineered for durability, featuring a sleek, dark grey anodised aluminium housing that dissipates heat silently, making it truly fanless and resilient against dust and vibrations. Its compact dimensions (197mm x 210mm x 65mm) belie a wealth of connectivity options, including

- 2x USB 3.2 ports for high-speed peripherals
- 2x USB 2.0 ports for versatile connections
- 1x HDMI and 1x VGA port for dual display configurations
- 1x Gigabit Ethernet for robust wired networking
- Dual-Band Wi-Fi 5 (802.11ac) for flexible wireless deployment
- Dedicated Speaker Out and Mic In ports

Operating flawlessly from 0°C to 50°C and 20% to 80% non-condensing humidity, this IPC is ready for any industrial challenge. Power it globally with its wide 100~275V AC input and a dependable 12V 7A adapter. With RoHS and ISO certifications, the IPC5 ensures quality and environmental compliance, ready for your custom OS via FreeDOS.



Specifications

PROCESSING

| | |
|-----------------|---------|
| Generation | 12th |
| Series | i5 |
| Processor Brand | Intel |
| Processor Model | 1240P |
| Cores | 12 |
| Max Frequency | 4.4 GHz |
| Cache | 12 MB |
| Main Memory | 16 GB |
| SSD Storage | 512 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 |
| USB 2.0 | 2 |
| Front USB 2.0 | 4 |
| 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 | 2.83kg, 3.25kg |

OPERATING SYSTEM

| | |
|------------------|---------|
| Operating System | FreeDOS |
|------------------|---------|

Ordering Information

| PRODUCT CODE | |
|------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IPC5-i5_12-[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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