



Thinvent Industrial PC IPC5

Intel Core 5 120U processor

10 core, up to 5.0 GHz, 12 MB cache

32GB DDR4 RAM

2TB SSD

Dual Band WiFi

Ubuntu Linux

SKU: IPC5-I5_14-32-M2048-12_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 × 210mm × 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	32 GB
SSD Storage	2048 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
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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
SSD	m128 = 128GB			
	m512 = 512GB			
	m2048 = 2TB			
Wireless	m = Dual Band WiFi			
		X = No WiFi		
OS	DOS = DOS	W_OS = Without OS		
	11V = Windows 11 IoT Value	11P = Windows 11 Pro		
	110 = Windows 11 Professional	Thinux = Thinux™ Embedded Linux		
	U = Ubuntu Linux			
Accessories	0 = None	4S = Quad DB9 Serial		

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