



Thinvent Industrial PC IPC5

Intel Core i7-1255U processor

10 core, up to 4.7 GHz, 12 MB cache

Dual LAN

4GB DDR4 RAM

512GB SSD

Dual Band WiFi

Windows 11 Professional

SKU: IPC5-I7_12L-4-M512-12_5-M-11O-0



Unyielding power for the factory floor, the Thinvent IPC5 keeps your world turning.

The IPC5 is the industrial PC that doesn't just keep up—it sets the pace. Purpose-built for round-the-clock operation, this fanless marvel delivers desktop-class performance in a compact, rugged chassis. From precision machine vision to real-time edge analytics, the IPC5 handles your most demanding tasks with effortless speed and rock-solid stability.

Performance that pays for itself

- Powers through complex automation routines without breaking a sweat
- Responds instantly to control commands, minimising downtime and maximising throughput
- Handles data-intensive workloads at the edge, reducing reliance on distant servers

Rugged by design

- Completely fanless and passively cooled, so dust, dirt, and debris never get inside

- Operates reliably in temperatures from freezing to 50°C, with no thermal throttling
- Aluminium housing with a smooth, anodised dark-grey finish shrugs off knocks and vibrations
- Built for continuous 24/7 duty in the harshest industrial environments

Connectivity without compromise

- Dual Gigabit Ethernet for resilient, high-speed networking
- Multiple USB and serial ports to link legacy machinery and modern sensors alike
- Built-in dual-band Wi-Fi for flexible, cable-free deployment
- HDMI and VGA outputs for crisp displays and straightforward HMI integration

Proudly designed in India

- Developed and



Specifications

PROCESSING

Generation	12th
Series	i7
Processor Brand	Intel
Processor Model	1255U
Cores	10
Max Frequency	4.7 GHz
Cache	12 MB
Main Memory	4 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
Front USB 2.0	3
Front Serial Port	2 DB9 male RS232
RS485 Option	1

NETWORKING

Ethernet	1000 Mbps
Ethernet Ports	2
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	Microsoft Windows 11 Professional
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Ordering Information

PRODUCT CODE

IPC5-i7_12l-[RAM]-[SSD]-12_7-[Wireless]-[OS]-[Accessories]

RAM

4 = 4GB DDR4

8 = 8GB DDR4

16 = 16GB DDR4

32 = 32GB DDR4

32_32 = 64GB
DDR4 RAM (2 x
32GB)16_16 = 32GB
DDR4 RAM (2 x
16GB)8_8 = 16GB DDR4
RAM (2 x 8GB)

SSD

m128 = 128GB

m512 = 512GB

m2048 = 2TB

m256 = 256GB

m1024 = 1TB

Wireless

m = Dual Band WiFi

X = No WiFi

OS

DOS = DOS

11V = Windows 11 IoT Value

110 = Windows 11 Professional

U = Ubuntu Linux

W_OS = Without OS

11P = Windows 11 Pro

Thinix = Thinix™ Embedded Linux

Accessories

0 = None

4S = Quad DB9 Serial

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