



Thinvent Industrial PC IPC5

Intel Core i7-1255U processor

10 core, up to 4.7 GHz, 12 MB cache

Dual LAN

64GB DDR4 RAM (2 x 32GB)

2TB SSD

Dual Band WiFi

Windows 11 IoT Value

Quad DB9 Serial



SKU: IPC5-I7_12L-32_32-M2048-12_7-M-11V-4S

Power Through the Toughest Tasks Without Breaking a Sweat.

Engineered for the relentless demands of modern industry, the Thinvent® Industrial PC IPC5 delivers uncompromising performance in the harshest environments. Its powerful, fanless design ensures silent, maintenance-free operation, free from dust and failure-prone moving parts. Built to thrive where others falter.

Unmatched Reliability for Critical Operations

- Rugged, all-aluminium chassis with a smooth anodised finish dissipates heat efficiently and stands up to vibration, shock, and extreme temperatures.

- Pure, dependable computing power for advanced applications like real-time machine vision, sophisticated automation, and intelligent edge computing.
- Extensive connectivity, including multiple serial ports and dual LAN, seamlessly integrates with legacy machinery and modern networked systems.

Your Intelligent Edge, Built to Last

This is the robust computing core for your most ambitious projects. From the factory floor to remote installations, it provides the steadfast reliability and high-speed processing you need to innovate with confidence. Proudly 100% designed in India, it represents a new standard in durable, powerful industrial computing.



Specifications

PROCESSING

Generation	12th
Series	i7
Processor Brand	Intel
Processor Model	1255U
Cores	10
Max Frequency	4.7 GHz
Cache	12 MB
Main Memory	64 GB
SSD Storage	2048 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
Rear Serial Port	4 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	7 Amps
Power Input	100~275 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	2.92kg, 3.34kg

OPERATING SYSTEM

Operating System	Microsoft Windows 11 IoT Enterprise LTSC 2024 Value
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Ordering Information

PRODUCT CODE

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

RAM	4 = 4GB DDR4 32_32 = 64GB DDR4 RAM (2 x 32GB)	8 = 8GB DDR4 16_16 = 32GB DDR4 RAM (2 x 16GB)	16 = 16GB DDR4 8_8 = 16GB DDR4 RAM (2 x 8GB)	32 = 32GB DDR4
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 Thinux = Thinux™ Embedded Linux	
Accessories	0 = None		4S = Quad DB9 Serial	

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