



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

No WiFi

Windows 11 IoT Value

Quad DB9 Serial

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



Engineered for the Demanding Edge: The Uncompromising Industrial PC.

Built to Power Your Most Critical Operations

Unleash formidable computing performance right on your factory floor. This robust IPC is engineered to handle complex tasks like real-time machine vision, advanced process control, and intelligent edge computing with unshakeable reliability. It thinks fast, so your systems can react faster.

Rugged and Reliable, By Design

With a solid, fanless aluminium chassis, this unit thrives where others falter. It operates silently and resists dust in harsh environments, from production lines to remote installations. Its smooth, anodised grey finish isn't just for looks—it's a testament to durable, 100% Indian design and engineering.

Connect and Control with Unmatched Versatility

Seamlessly integrate with a world of industrial equipment. Four dedicated serial ports provide legacy connectivity, while dual Gigabit Ethernet ensures robust network communication. This is the central nervous system for sophisticated automation, ready to link, manage, and drive your machinery.



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

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_121-[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 Thinux = Thinux™ Embedded Linux
Accessories	0 = None 4S = Quad DB9 Serial

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