



# Thinvent Industrial PC IPC5

## Intel Core i5-1335U processor

10 core, up to 4.6 GHz, 12 MB cache

## 32GB DDR4 RAM (2 x 16GB)

## 1TB SSD

## Dual Band WiFi

## Thinux Embedded Linux

## Quad DB9 Serial

SKU: IPC5-I5\_13-16\_16-M1024-12\_7-M-THINUX-4S



Power Your Industrial Future: Rugged Performance, Unmatched Connectivity.

The Thinvent® Industrial PC IPC5 is engineered for the most demanding environments, delivering uncompromising power and reliability in a fanless, compact design. 100% designed in India, this robust IPC redefines industrial automation, edge computing, and machine vision.

### Performance

At its core, the IPC5 features an Intel® Core™ i5-1335U processor with 10 cores, bursting up to 4.6 GHz, and a substantial 12 MB cache. Coupled with 8GB DDR4 RAM and a rapid 128GB SSD, it provides the computational muscle needed for complex data processing and real-time operations, ensuring seamless execution of advanced industrial applications.

### Connectivity and Versatility

Experience unparalleled connectivity with six DB9 male RS232 serial ports, perfect for integrating diverse industrial peripherals.

- Six DB9 male RS232 serial ports
- Two USB 3.2 and two USB 2.0 ports
- HDMI and VGA outputs for dual display setups
- Gigabit Ethernet and dual-band Wi-Fi 5 (802.11ac) for robust networking
- Speaker Out and Mic In for audio integration

Measuring just 197mm × 210mm × 65mm, its compact size allows for versatile deployment.

### Durability and Design

Crafted from durable aluminium with a smooth, dark grey anodised finish, the IPC5 is built for resilience. Its fanless architecture ensures silent operation and exceptional reliability in dust-prone environments, operating flawlessly from 0°C to 50°C. RoHS and ISO certified, it guarantees quality and environmental compliance.

### Operating System

Pre-installed with Thinvent® Thinux™ Embedded Linux, the IPC5 offers a secure, stable, and feature-rich platform tailored for industrial use.

- Essential web browsers: Chromium and Mozilla Firefox
- Comprehensive remote access: RDP 10 (RemoteFX, H.264/AVC), Putty, SSH, and browser-based remote management
- VNC shadowing for seamless monitoring
- Development support for Java, Python, and glibc-based applications
- Productivity tools: LibreOffice and PDF viewer
- Multimedia player with MPEG4 support and SIP video/voice over IP capabilities





# Thinvent Industrial PC IPC5



## Specifications

### PROCESSING

|                 |         |
|-----------------|---------|
| Generation      | 13th    |
| Series          | i5      |
| Processor Brand | Intel   |
| Processor Model | 1335U   |
| Cores           | 10      |
| Max Frequency   | 4.6 GHz |
| Cache           | 12 MB   |
| Main Memory     | 32 GB   |
| SSD Storage     | 1024 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 |
| Rear Serial Port  | 4 DB9 male RS232 |

### NETWORKING

|                     |                               |
|---------------------|-------------------------------|
| Ethernet            | 1000 Mbps                     |
| 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 | 2.82kg, 3.24kg          |

### OPERATING SYSTEM

|                  |                                                                                                                                                                                                                                                                                                                                                                   |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating System | Thinvent® Thinux™ Embedded Linux                                                                                                                                                                                                                                                                                                                                  |
| OS Features      | <p>Chromium and Mozilla Firefox browsers.</p> <p>RDP 10 (RemoteFX, H.264/AVC), Putty and SSH for remote display.</p> <p>Browser based remote management. VNC shadowing.</p> <p>Java, Python and glibc based location application support.</p> <p>LibreOffice and PDF viewer.</p> <p>Multimedia player with MPEG4 support.</p> <p>SIP video and voice over IP.</p> |

## Ordering Information

| PRODUCT CODE                                              |                                     |                                     |                                  |                |
|-----------------------------------------------------------|-------------------------------------|-------------------------------------|----------------------------------|----------------|
| IPC5-i5_13-[RAM]-[SSD]-12_7-[Wireless]-[OS]-[Accessories] |                                     |                                     |                                  |                |
| RAM                                                       | 4 = 4GB DDR4                        | 8 = 8GB DDR4                        | 16 = 16GB DDR4                   | 32 = 32GB DDR4 |
|                                                           | 32_32 = 64GB<br>DDR4 RAM (2 x 32GB) | 16_16 = 32GB<br>DDR4 RAM (2 x 16GB) | 8_8 = 16GB DDR4<br>RAM (2 x 8GB) |                |
| SSD                                                       | m128 = 128GB                        |                                     | m256 = 256GB                     |                |
|                                                           | 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             |                |
|                                                           | Thinix = Thinix™ Embedded Linux     |                                     | U = Ubuntu Linux                 |                |
| Accessories                                               | 0 = None                            |                                     | 4S = Quad DB9 Serial             |                |

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