

# Thinvent IPC 3

An Industrial Powerhouse



**IPC 3** is designed to operate 24/7 in extreme conditions—high/low temperatures, humidity, dust, and vibration. With a long product lifecycle and long-term component availability, essential for industries where hardware consistency is crucial.

IPC 3 offers modular configurations to meet specific needs, such as a range of peripheral ports (RS232, USB, GPIO), custom storage, or unique mounting options. It also includes features for real-time computing, supporting precise timing required in applications like automation, robotics, and process control, along with extensive connectivity—Ethernet, WiFi, and protocols like CAN bus and Modbus—to integrate seamlessly within industrial networks and IoT systems. IPC 3 is certified to industry standards (like RoHS, ISO,) to ensure they meet safety, environmental, and performance standards critical in sectors like **medical, defence, automotive, aviation, gaming, communication, retail & logistics, semiconductor solutions, smart cities, railways, robotics and energy.**

HARDWARE	
Processor	Intel i3 12th Gen
Graphics	Intel® UHD Graphics up to 750MHz
Memory	Up to 64 GB DDR4 @2933 MHz*
Display	4K UHD - 4096x2160@60Hz 1 x HDMI connector ② 1 x VGA connector ③ Dual independent display
Networking	1 Gbps Ethernet Port ⑤ 1 x RJ-45 with diagnostic LEDs
Audio	2 x Speaker out 2 x Mic in HD Audio CODEC
Peripheral Ports	4 x USB 3.0 ④⑥ 4 x USB 2.0

SOFTWARE	
OS	Linux / Windows
Browsers	Google Chrome, Mozilla Firefox
Remote Display and VDI Protocols	RDP 10 (RemoteFX, H.264/AVC) Citrix Virtual Desktop, ICA, HDX VMware Horizon Putty and SSH
Remote Management	Browser-based management suite. VNC shadowing.
Local Applications	Microsoft .NET, PDF viewer, Java, Zoom
Multimedia	VLC Player with MPEG4 support SIP - video, voice, text over IP
Peripheral Support	Printer, Scanner, Touchscreen. Biometrics, Smart card, RFID and Barcode readers.

OPTIONAL	
WLAN	802.11n WiFi Networking
Bluetooth	Yes

ENVIRONMENTAL	
Temperature	-10°C to 48°C
Humidity	20 to 80% RH, non-condensing
Certification	RoHS, ISO

PHYSICAL	
Dimensions	219mm x 203mm x 33mm
Net Weight	1.9 kg
Gross Weight	2.2 kg
Colour	Metallic Silver
Housing	Extruded High Grade Aluminium
Form Factor	Mini ITX 170x170

ELECTRICAL - EXTERNAL ADAPTOR	
Power Input	100 - 240 V AC, 50 - 60 Hz
Power Output	12V
Current	5 A
Consumption	65 Watt

STORAGE OPTIONS	
M.2 SSD	1 x M.2 2280 Support SATA

WARRANTY AND SERVICE OPTIONS	
Standard	3-year return to the bench
Extended	5-year return to the bench
On-Site Service	Onsite service (select locations)

