Emerson's IPCs: Next-Gen Industrial Computing



Powering industrial innovation with rugged reliability, next-gen AI performance, and adaptable intelligence.

Keep machines running — without interruption and zero-throttling.

Maintain continuous uptime and consistent peak performance with a rugged, industrial-grade Industrial PC (IPC) design that withstands vibration, electrical noise and temperature extremes without throttling — supporting reliable, hands-free operation over years of service.

Run AI workloads at the edge — without cloud induced latency.

Accelerate AI-driven insight with next-gen IPCs engineered to deliver the compute performance demanding AI workloads require, even in air-gapped environments — without compromising real-time responsiveness or reliability.

Easily scale and adapt systems as needs change.

With flexible IPC performance ranging from edge processing to advanced analytics, Emerson's IPCs enable OEMs to deploy and scale IIoT solutions — processing complex data locally for faster insight, supporting secure remote monitoring, and contextualizing data for seamless integration with IT applications.

EMERSON

Empowering the Future of Industrial Automation

Built to run in conditions where insight matters most, Emerson's IPCs deliver reliable, long-term high-performance compute at the edge for demanding operational environments.

Ensure Unwavering Reliability

- Designed for Temperature Extremes: Delivers consistently high, 100% rated CPU and GPU performance across a full operating temperature range (-40˚C to maximum +70˚C*) through patented thermal management.
- Maintenance Free, Fanless Design: No moving parts including a fanless design ensure multiple years of dependable performance and extended product availability.
- Vibration and Shock Tolerant Operation: Designed to maintain flawless function and a 10-year in-service lifecycle to assure continuous operation in challenging industrial environments despite extreme conditions.

Deliver Unparalleled Performance for Industrial AI Workloads

- On-Premise AI: Execute vision applications (quality inspection, safety) and predictive maintenance directly at the edge, reducing latency and data costs.
- Integrated AI Capabilities: Leverage built-in GPUs and support for M.2 or PCIe AI accelerator modules for diverse workloads.
- Faster Time-to-Value: Achieve rapid initial project success and minimize implementation risks with pre-validated AI software platforms, significantly reducing engineering costs and resource demands.

Future-Proof with Flexible Intelligence

- Multi-OS Support: Deploy the right operating system while preserving software investments and reducing redesign effort.
- Field Upgradeable: Easily increase functionality by installing PCIe cards in the field to adapt to evolving demands.
- Accelerated IIoT: Jumpstart IIoT applications with pre-installed PACEdge™ software, providing a ready-to-use, containerized platform for insights.
- Industrial Edge Connectivity: Native support for OPC-UA™, PROFINET™, Ethernet/IP, Modbus TCP, MQTT, TSN, and other proprietary fieldbuses enables seamless integration into any communication architecture.
- High-Bandwidth Connectivity: Features 2.5Gbit Ethernet, Wi-Fi 6/6E, Thunderbolt® 4, and 40-Gbit USB-C for rapid data flow.
- Scalable AI Power: Built-in GPU and expansion slots support complex IIoT data processing and advanced analytics at the edge.

** Refer to datasheet for temperature range by model.*

One Family. One Architecture. Three Series.

Efficient



6000 Series IPCs
Edge Performance Series

Balanced



7000 Series IPCs
Industrial Workstation Series

High Capacity



8000 Series IPCs
AI & High Performance Series

Online Configurator

Click here or **scan the QR code** to access our online configurator where you can tailor a flexible solution that scales as needs change.

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Go Boldly™