VELA IPC
POWERED BY ADVANTECH

INDUSTRIAL COMPUTING

Reliable Industrial Computing for Control & Connectivity

A dependable industrial computing platform for running software, controlling equipment and connecting machinery to wider production systems. Built around Advantech hardware, configured to your requirements and supported by Impulse Embedded.



Process Control • Machine & Equipment Control • Factory Automation

Available in Tower, 2U and 4U chassis | www.impulse-embedded.co.uk

WHY CHOOSE THIS PLATFORM

Designed for Long-Term Industrial Deployment

VELA IPC is built around proven industrial components selected for performance, availability and long-term platform stability.

1

Supply Continuity Without Compromise

Broad CPU support across Bartlett Lake and 12th to 14th Gen Intel Core improves supply continuity without compromising performance or software and driver compatibility.

2

Industrial Platform

Advantech industrial motherboards provide the connectivity, expansion and lifecycle support required for long-term machine and control applications.

3

Flexible Configuration

Memory, storage and operating system options can be tailored to the application, while PCIe and PCI expansion supports specialist I/O, data-acquisition hardware and legacy interfaces.

4

Built for Long-Term Support

Standardised, serviceable components make systems easier to maintain, upgrade and support throughout their operational life.

5

Right-Sized Performance

VELA IPC is configured around the needs of industrial control applications, balancing processing power, memory and expansion capability without unnecessarily over-specifying the system.

Built with in-stock components for quick dispatch and long-term support. Backed by a 3-year return-to-base warranty.

DESIGNED FOR

Suited to Everyday Industrial Computing

VELA IPC is built for the jobs that keep a facility running, supervising processes, operating machinery and connecting equipment to wider production systems. It combines Intel Core processing with industrial-grade memory, connectivity and expansion, providing a dependable platform for day-to-day industrial applications.

Process Control

Runs process-control and supervisory software, collecting operational data and communicating with controllers, sensors and production equipment.

Machine & Equipment Control

A central computing platform for operating machinery, coordinating connected devices and running application software.

HMI & Operator Interfaces

Provides clear visibility of machine status, production information, alarms and control functions.

Factory Automation

Connects equipment, production lines and management platforms within existing automation systems.

Production Monitoring

Collects and displays real-time information from machinery and production systems for status reporting and performance tracking.

Condition Monitoring

Tracks equipment health and performance over time, helping to identify issues before they cause downtime.

Data Acquisition

Captures and processes data from sensors, instruments and connected equipment in demanding industrial environments.

Industrial System Integration

A flexible platform for bringing together controllers, sensors, machinery and legacy equipment within a single system.

CHOOSE YOUR CHASSIS

Configured Around Your Application



Tower

A standalone industrial computer for factory floors, laboratories and control rooms where rackmount installation isn't required.



2U Rackmount

A compact rackmount platform for control cabinets and production environments where rack space is limited.



4U Rackmount

A rackmount platform with greater expansion capacity and easier access for servicing, ideal where additional I/O or legacy cards are required.

What the platform can support

- Bartlett Lake and 12th to 14th Gen Intel Core processors
- DDR4 3200 memory configurations
- PCIe and legacy PCI expansion
- M.2 NVMe and removable drive storage
- Serial, USB and dual Gigabit Ethernet connectivity

Let's Configure Your VELA IPC System

Speak to our team about your application, expansion requirements, software setup or customisation needs. We can help you choose a proven configuration or create something more bespoke.

Call: +44 (0)1782 337 800 | Email: sales@impulse-embedded.co.uk