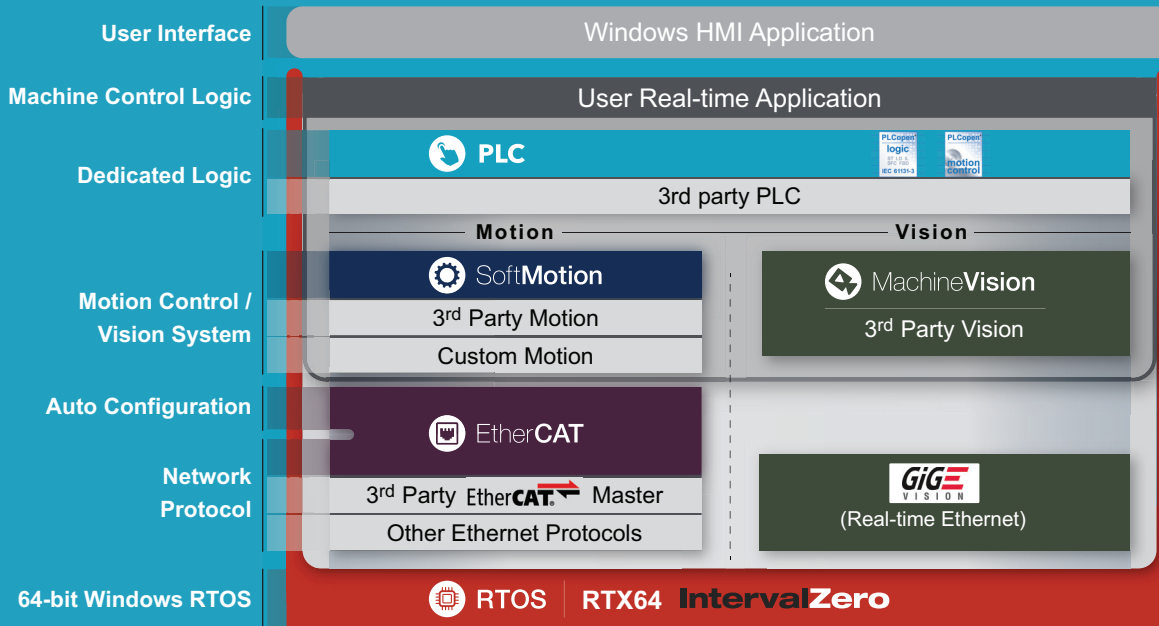


The Complete “Plug-and-Play” Software Platform for Real-Time, PC-Based Motion Control & Machine Vision

The KINGSTAR Machine Automation Platform is an open and standards-based, integrated platform that enables engineers to design, develop, and integrate applications with either KINGSTAR’s soft motion library and software PLC or third-party software. Using a single industrial PC enhanced by the power of a real-time operating system (RTOS) for 64-bit Windows, and leveraging the EtherCAT standard, you can deliver software-only motion controllers and machine vision positioning systems quickly and cost effectively.



REDUCE COSTS

Replace hardware with software to reduce machine control costs by 25-50%.

SPEED TIME-TO-MARKET

Improve productivity with pre-integrated motion libraries and EtherCAT auto-configuration.

IMPROVE UX

Build a powerful UI with a world-class Windows Interface (HMI).

ENHANCE PERFORMANCE

Improve performance and control by using the PC NIC, Ethernet cables and EtherCAT infrastructure.

SCALE DYNAMICALLY

Auto-configure an EtherCAT network when swapping any servo drives and I/O devices.

EXTEND EASILY

Add any 3rd party protocols or open-source libraries with no vendor lock-in.

The KINGSTAR Machine Automation Platform provides the most comprehensive set of product options

KINGSTAR Soft Motion

Deliver superior quality with pre-integrated and tested motion libraries that provide precision motion positioning performance

KINGSTAR EtherCAT

Integrate custom motion control on an auto-configured EtherCAT network for any servo or I/O device

KINGSTAR PLC

Powered by AXEL, monitor app management and deployment from an intuitive HMI on an industrial PC

KINGSTAR Machine Vision

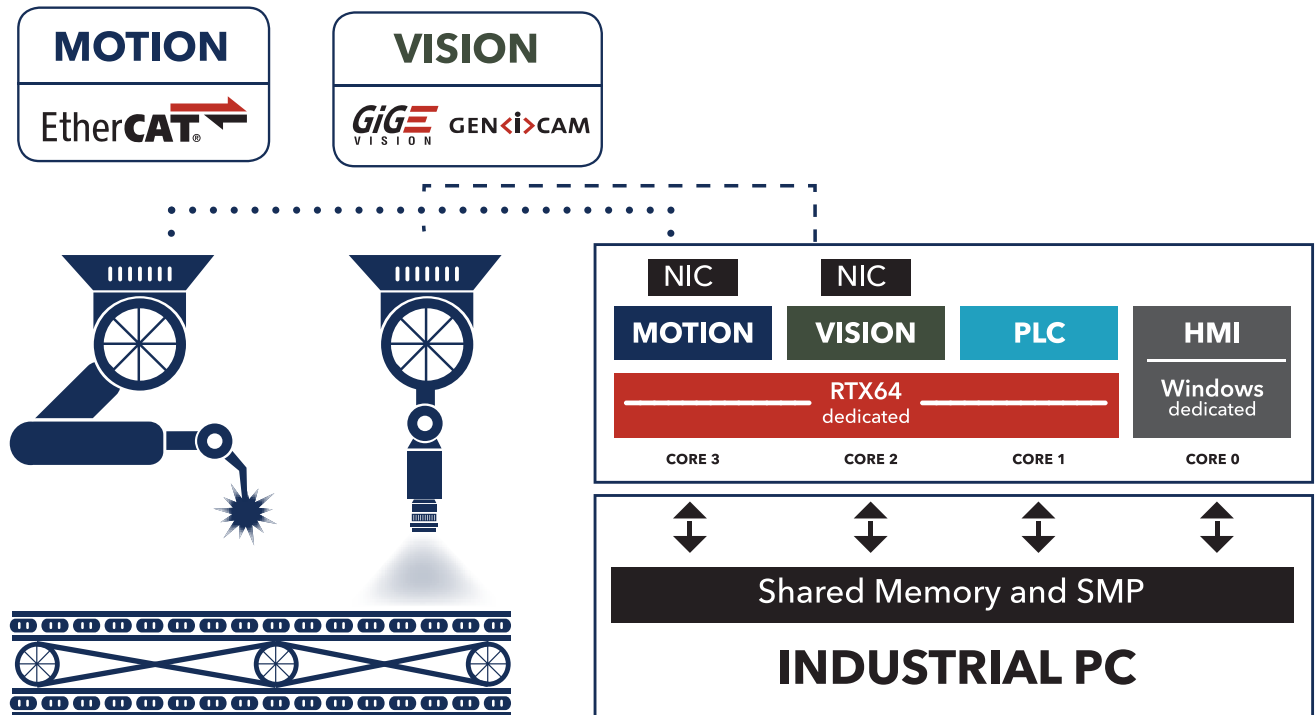
Powered by Matrox, run their imaging library (MIL) for real-time image capture and processing on 64-bit Windows

IntervalZero RTX64

Replace hardware FPGAs & DSPs with software that transforms 64-bit Windows into a real-time OS



Rapidly deliver PC-based industrial machine controllers with precision performance and superior quality at half the cost of hardware.



- | | |
|--|--|
| <p>KINGSTAR
SoftMotion</p> | <ul style="list-style-type: none"> • Enables coordinated motion at 125 microsecond intervals • Up to 3 cores for dedicated motion control • Machine control API for real-time precision and accessible from Visual Studio |
| <p>KINGSTAR
EtherCAT</p> | <ul style="list-style-type: none"> • Enables coordinated motion at 125 microsecond intervals • Up to 3 cores for dedicated motion control • Integrates any customized motion control software |
| <p>KINGSTAR
PLC
powered by AXEL</p> | <ul style="list-style-type: none"> • Transform your industrial PC into a PLC with an intuitive HMI • Handle all motion control and machine vision automation tasks • Rely on modularity and ruggedness for real-time use |
| <p>KINGSTAR
MachineVision
powered by Matrox</p> | <ul style="list-style-type: none"> • Perform image capture, processing and analysis using GigE • Run Matrox Imaging Library (MIL) natively on IntervalZero's RTX64 RTOS • Partition a MIL app to run on RTX64 and Windows for response-critical parts |
| <p>KINGSTAR
IntervalZero
RTOS</p> | <ul style="list-style-type: none"> • Conduct real-time application processing up to 63 cores on a PC • Scale up with x86/x64 to create next-gen products • Up to 128 priorities for thread scheduling • Full control over process load balancing • Double performance every 18 months |

