



Independent software installation, suitable for various Windows computers.

Integrated machine vision, quickly build various real-time applications.

Compatible with the features of other versions of Motion RT, developed once, quickly switch to embedded systems, various Linux platforms.

Powerful multi-card functionality, supporting up to 240-axis linkage, cross-card linkage, pulse and bus linkage, mirror and platform linkage, easily achieving advanced functions such as position capture (PSO).

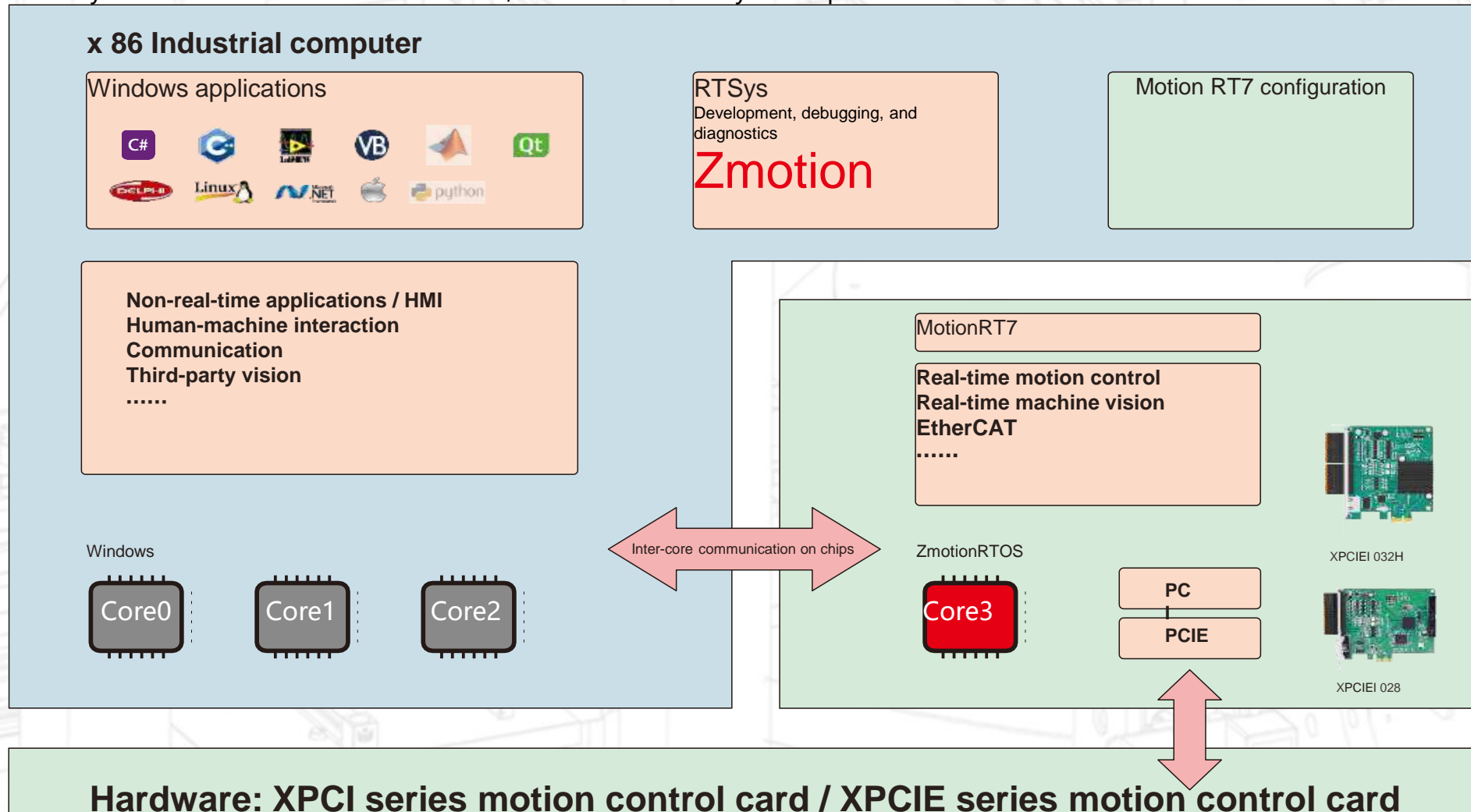
Unified function library interface, fast local LOCAL interface, motion function calls as fast as microsecond level, tens of times faster than ordinary PCI cards..

CONTROL CARD, FOR MULTI-AXIS MOTION PLATFORM ACCORDING TO THE SYSTEM



MotionRT7

Cross-system real-time motion control kernel; the first domestically developed Windows real-time motion control software core.



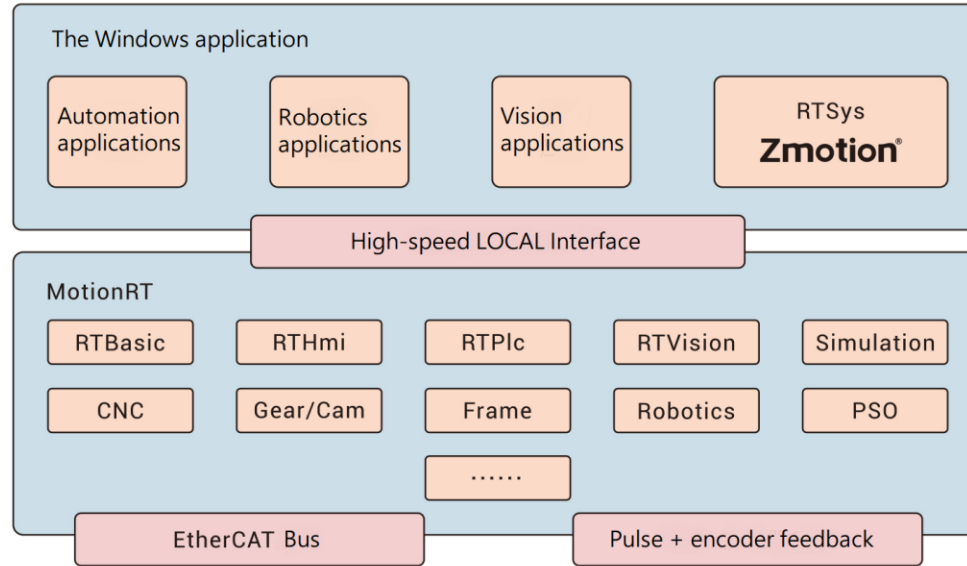
SYSTEM OVERVIEW



Modular Software Architecture

The motion control program, vision algorithms, and MotionRT7 motion control engine greatly enhance the interaction efficiency between motion control and machine vision through high-speed shared memory data exchange.

Customizable user functions integrate GMC, Gear/Cam, Frame, Robotics, CNC algorithms, etc., to create a dedicated control system for users.



Motion control functionality

Number of motion axes :
EtherCAT bus. up to 240 axes.

Number of I/Os :
EtherCAT extended to 4096 inputs and 4096 outputs.

Analog quantity :
EtherCAT extended to 512 analog inputs and 512 analog outputs.

Functional features

- Point-to-point motion, linear interpolation, circular interpolation, spiral interpolation, continuous trajectory processing.
- Electronic cam, electronic gear, synchronous tracking, position latch, virtual axis overlay.
- S-curve acceleration/deceleration, SS-curve acceleration/deceleration, smoother trajectory motion.
- 1D/2D/3D high-speed position synchronous output PSO, vision inspection, high-speed dispensing, laser processing.
- Customers can customize motion control algorithms or robot forward and inverse kinematics algorithms.

Vision capabilities Simultaneously supports third-party vision extensions for users.



Visual positioning



Blob analysis

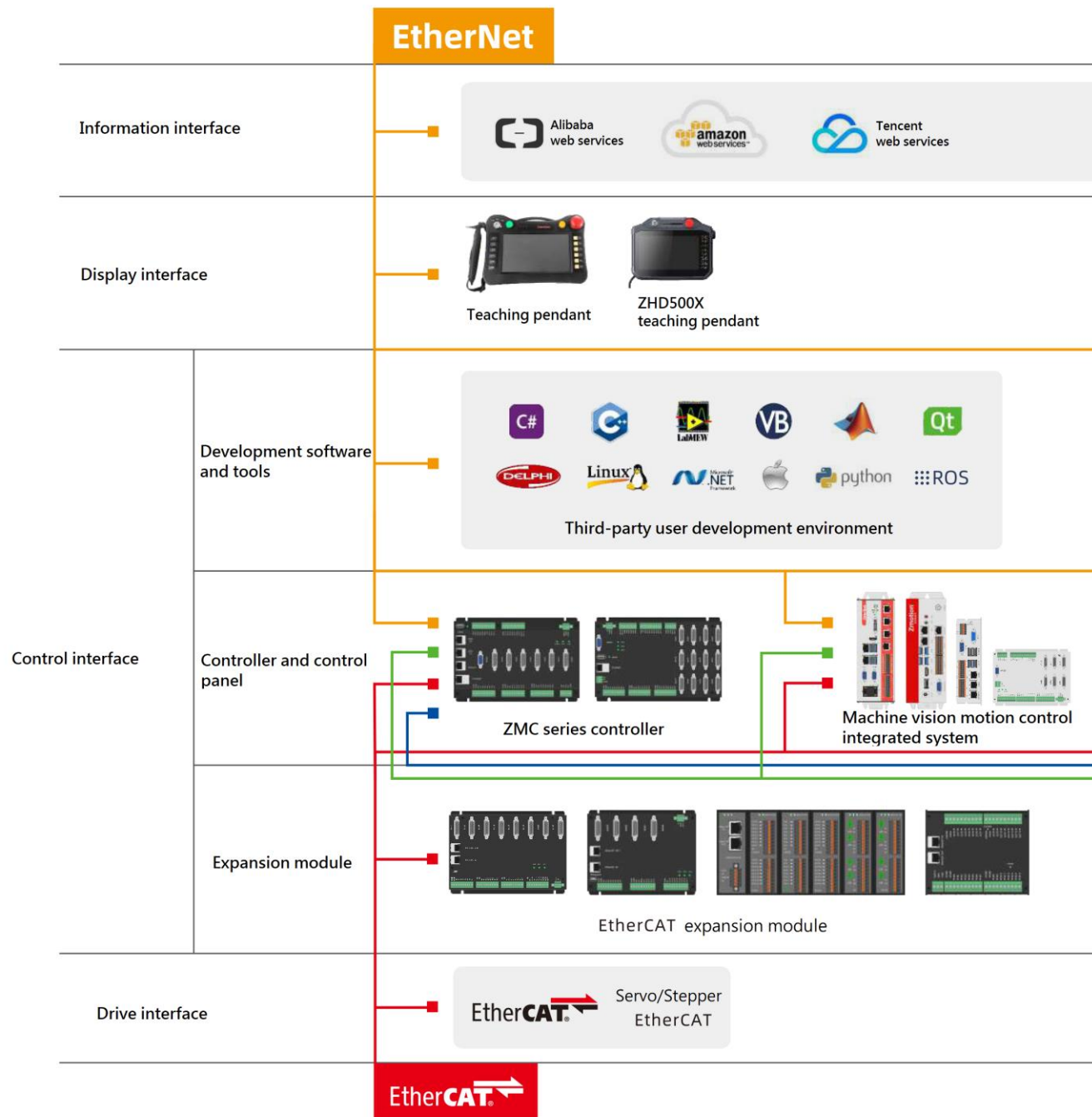


Visual measurement

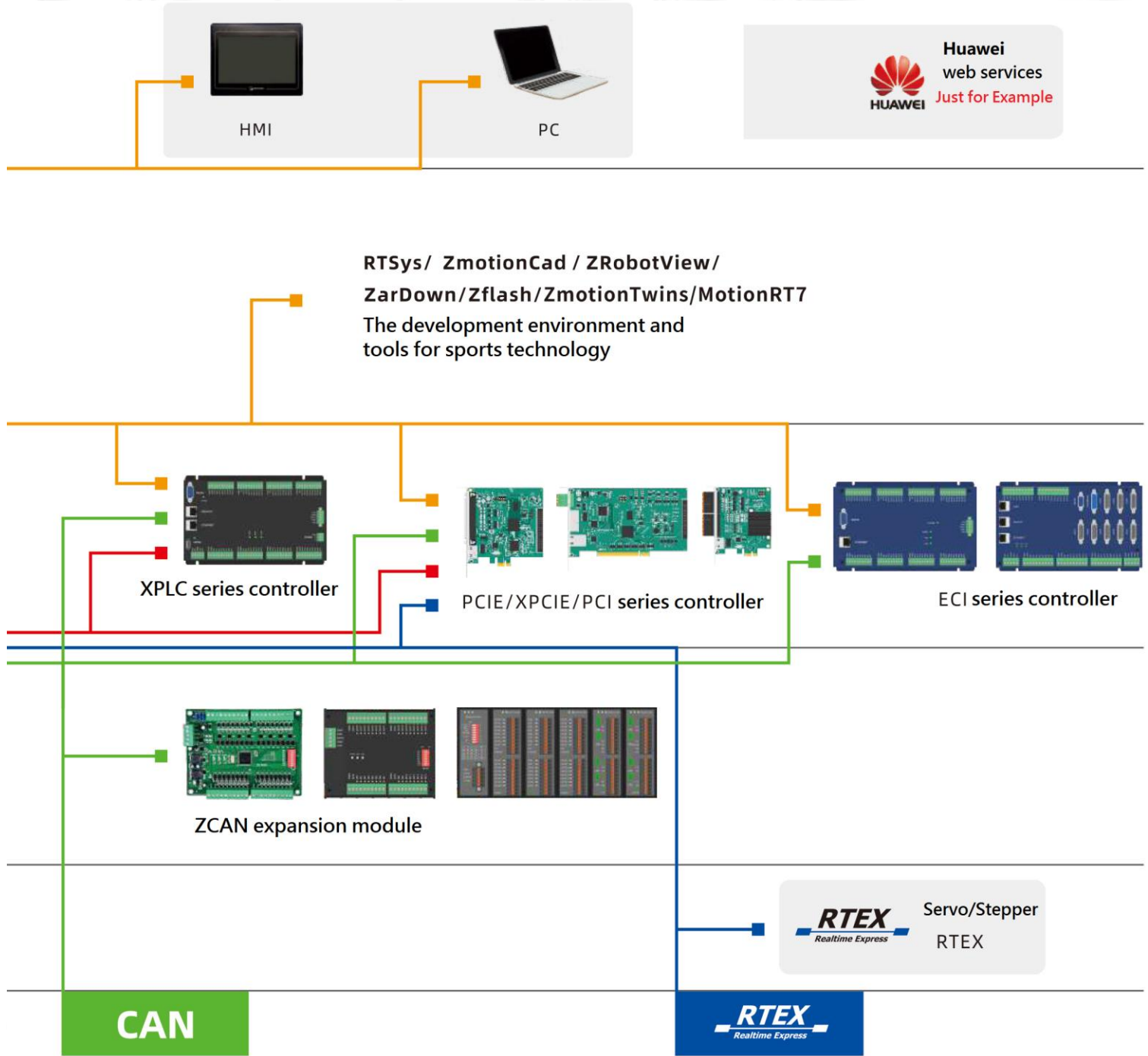


Detection and recognition

SYSTEM OVERVIEW



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Thanks