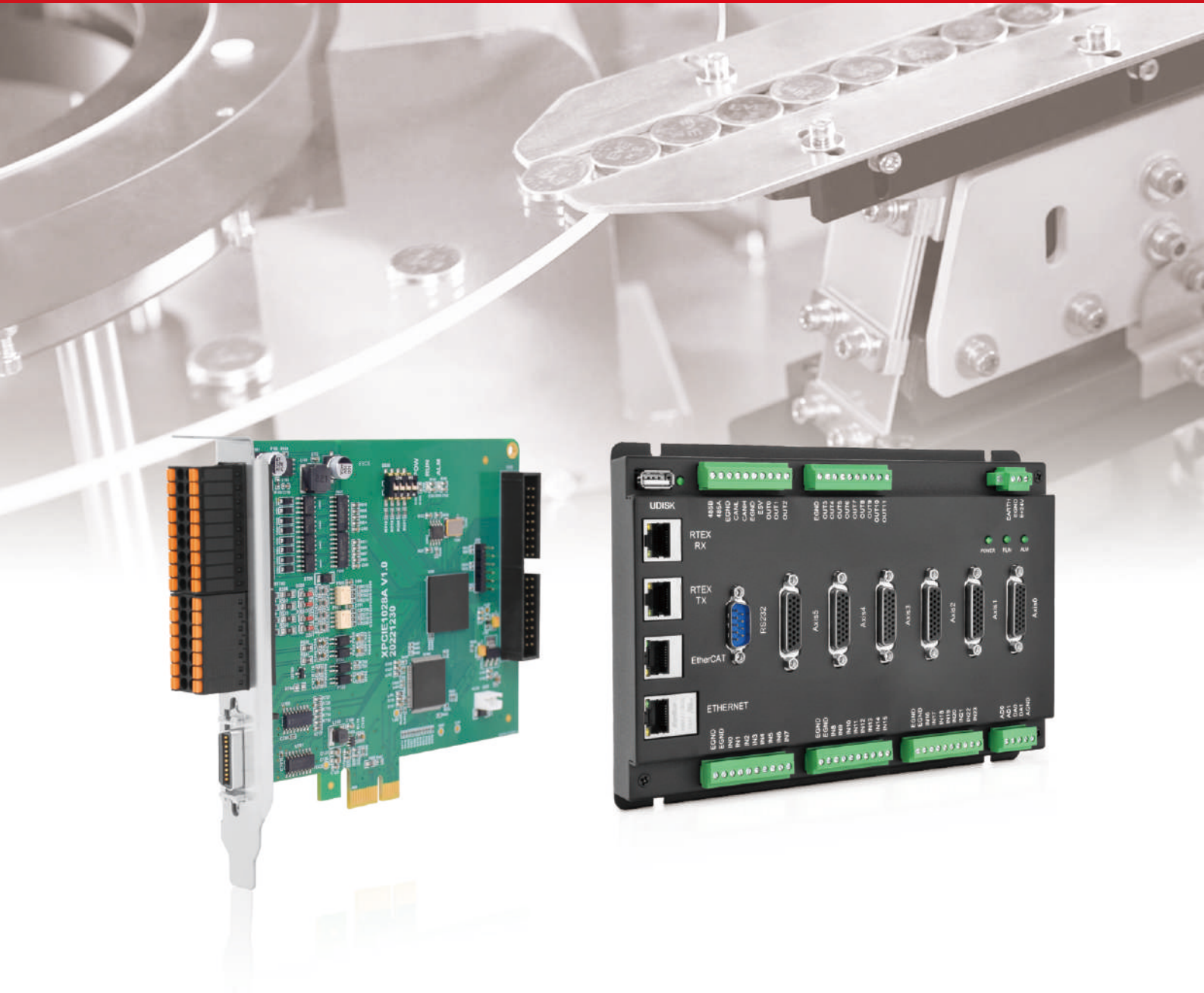


Full-Automatic Vision Screening Machine

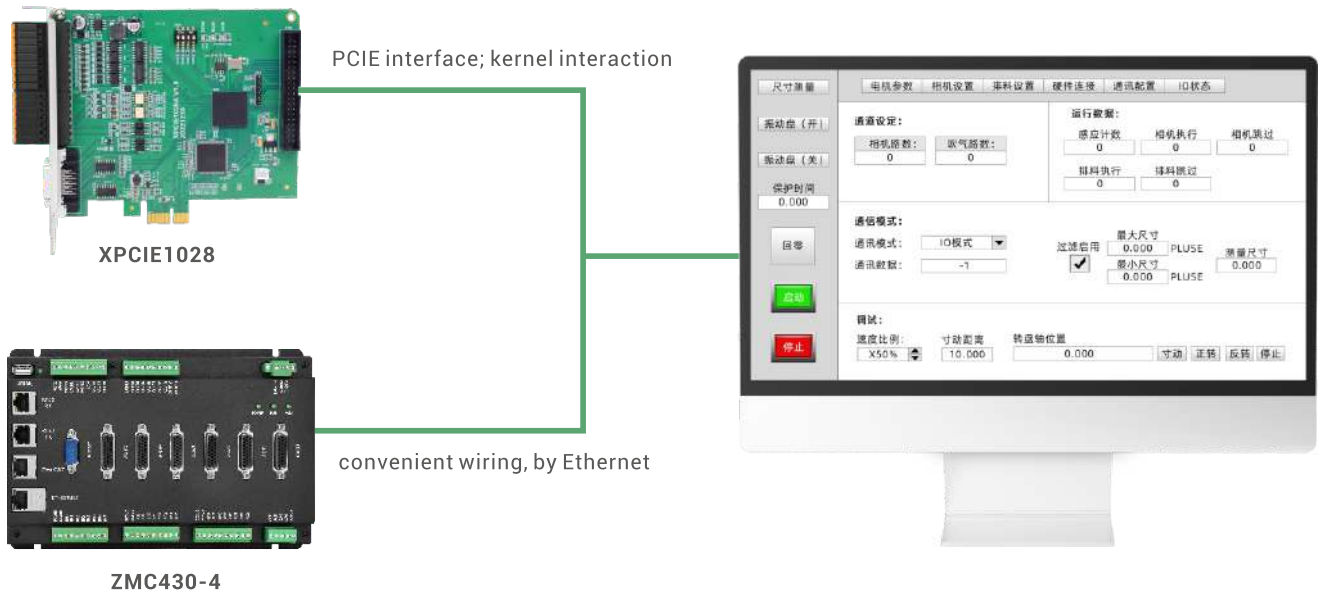
Specialized Super-High-Speed Real-Time PC-based
Motion Control Card / Motion Controller

motion control no-coding | high-speed screening | specialized API | easy to set parameters
size auto-filtering | materials management | heartbeat interaction | security mechanism

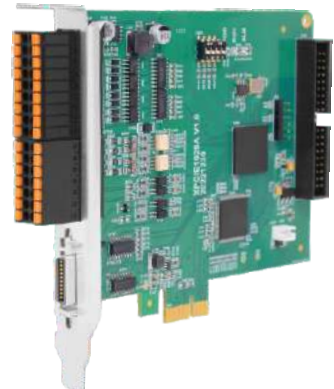


Super-High-Speed Real-Time Control Card / Controller

specialized for Full-Automatic Vision Screening Machine

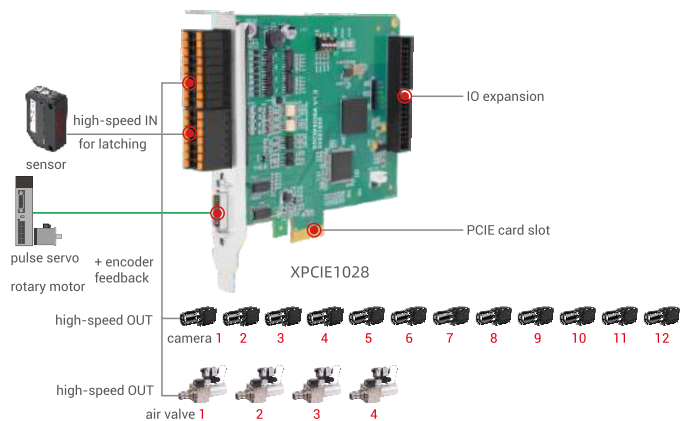


XPCIE1028 Screening Machine Product

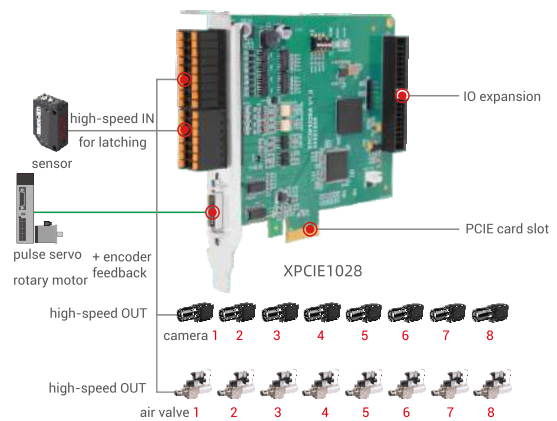


- standard PCIe – kernel interaction, higher efficiency.
- 12 DI & 16 DO, and there are 8 high-speed inputs, 16 high-speed outputs.
- support specialized pulse output and encoder input.
- OUT1-OUT16 are high-speed outputs, which can be used for cameras & blowing freely.
- multi-channel hard position comparison trigger efficiency can be up to 15000+pcs/min.

XPCIE1028 Hardware Solution

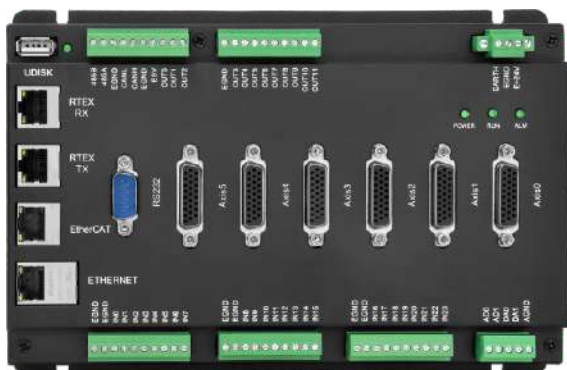


Solution of 12 Cameras



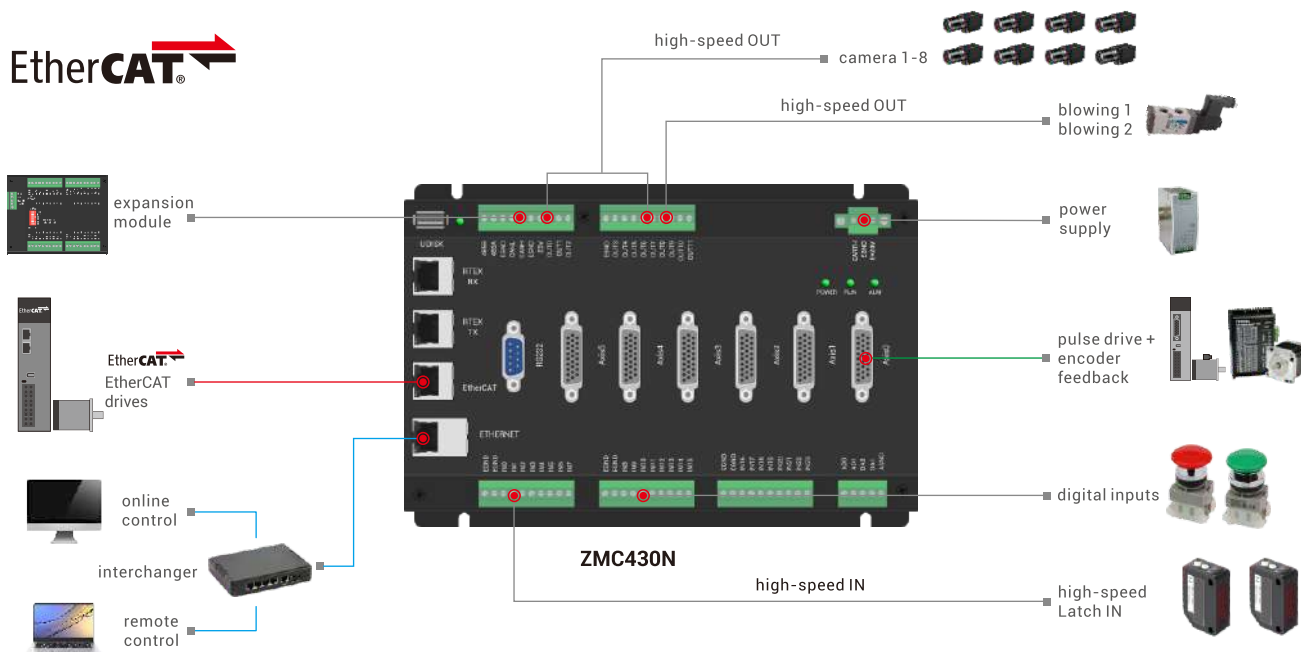
Solution of 8 Cameras

ZMC430-4 Screening Machine Product

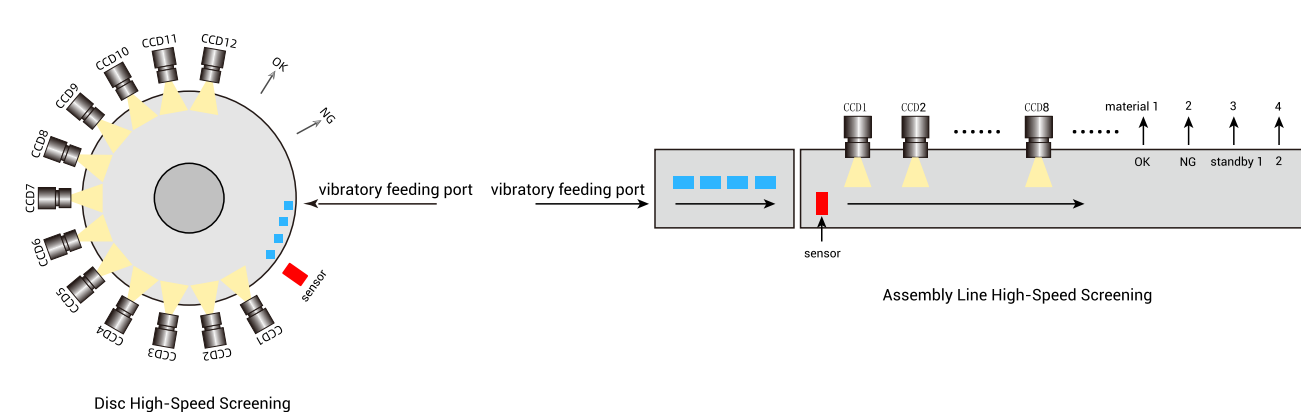


- support specialized pulse output and encoder input.
- standard high-speed Ethernet, convenient to do wiring.
- 24 DI & 12 DO, and there are 4 high-speed inputs, 12 high-speed outputs.
- OUT1-OUT12 are high-speed outputs, used for cameras and blowing freely.
- multi- hard position comparison trigger efficiency: max 6000+pcs/min.
- it can offline run multi-file & multi-task, also PC program and controller inner program can work at the same time.

ZMC430-4 Hardware Solution



Valid Machine Types



High-Speed Screening Machine Motion & Debug Software ZMStools V1.0



Motion Control

- full set of motion & debug software
- no-coding, directly use
- stable & efficient & reliable
- high-speed vision screening system

01. 1-12 camera OUT, it can set separate parameters for each camera.
02. 1-8 blowing OUT, it can set separate parameters for each solenoid valve.
03. sense & filter incoming materials, auto-filter size.
04. motor parameters can be configured freely.
05. intelligent data detection: counts of material OK, NG, lost, error, etc.
06. solve vision problems of large image volume & insufficient sample data.
07. blowing range and time can be controlled freely.
08. support heartbeat interaction, safer.

Provide Complete API Interface

Zmotion provides one set of full API library, which can be used together with your vision system. For more details, please refer to "full-automatic high-speed vision screening PC programming manual".



Advantages

- detection result is stable, efficient, and high-consistent.
- auto-filter and remove NG products, promoting product quality.
- auto-manage the material silo, feedback information in real-time.
- high-speed real-time kernel interaction, solving the problem of "large image volume & insufficient sample data".
- vision fly-shooting reduces machine CT, increasing efficiency.
- one person can operate one machine, promoting capacity.
- online check whether each process runs normally.
- compared to traditional "PLC + touch screen", this is higher integration, more cost effective, faster respond, higher efficiency

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