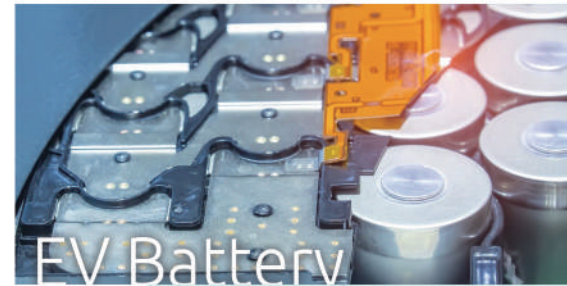


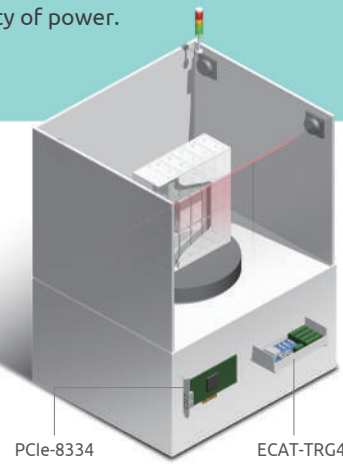
Application Stories



EV Battery

Requirements

High-speed and multi-axis X-ray generator control for non-destructive inspection and analysis of battery pack to ensure the quality of power.



PCIe-8334

ECAT-TRG4

Lithium-ion Battery Pack X-Ray Testing

Why ADLINK:

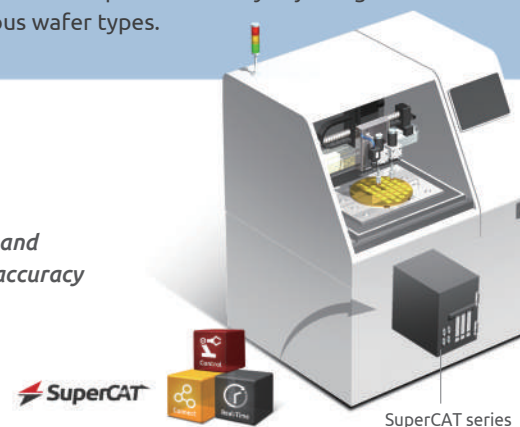
- The PCIe-8334 supports up to 32 multi-axis controls for inspecting various angles to enhance detection accuracy
- Achieve 10MHz X-ray triggers and 250µs motion control cycle to improve efficiency and productivity for high-volume detection



Semiconductor

Requirements

Semiconductor packaging equipment, particularly die bonding machines, require high-speed and precise pick-and-place control aligned with the machine vision system, and be capable of swiftly adjusting to fit various wafer types.



SuperCAT

SuperCAT series

Die Bonding

Why ADLINK:

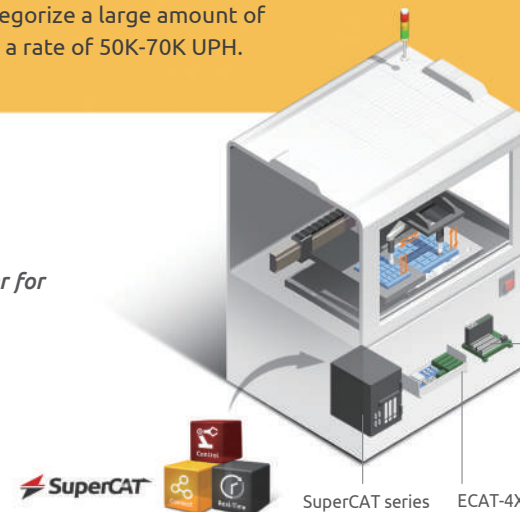
- Achieve 125µs cycle time with multi-axis synchronous motion and machine vision control to ensure sub-micrometer positioning accuracy
- SuperCAT controller effectively supports control parameter adjustment and maintenance on the IPC platform



Optoelectronic

Requirements

A sorting machine requires simultaneous integration of motion control, machine vision and IO triggers to process and categorize a large amount of LEDs at a rate of 50K-70K UPH.



SuperCAT

SuperCAT series

ECAT-4XMO

LED Chip Sorting

Why ADLINK:

- Achieve 125µs motion control cycle and 10MHz camera trigger for accurate chip identification and sorting efficiency
- One-stop shopping for motion and IO modules for integration compatibility
- The ECAT-4XMO module bridges pulse trains to EtherCAT, ensuring seamless upgrades for legacy machines

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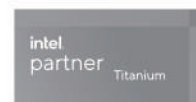
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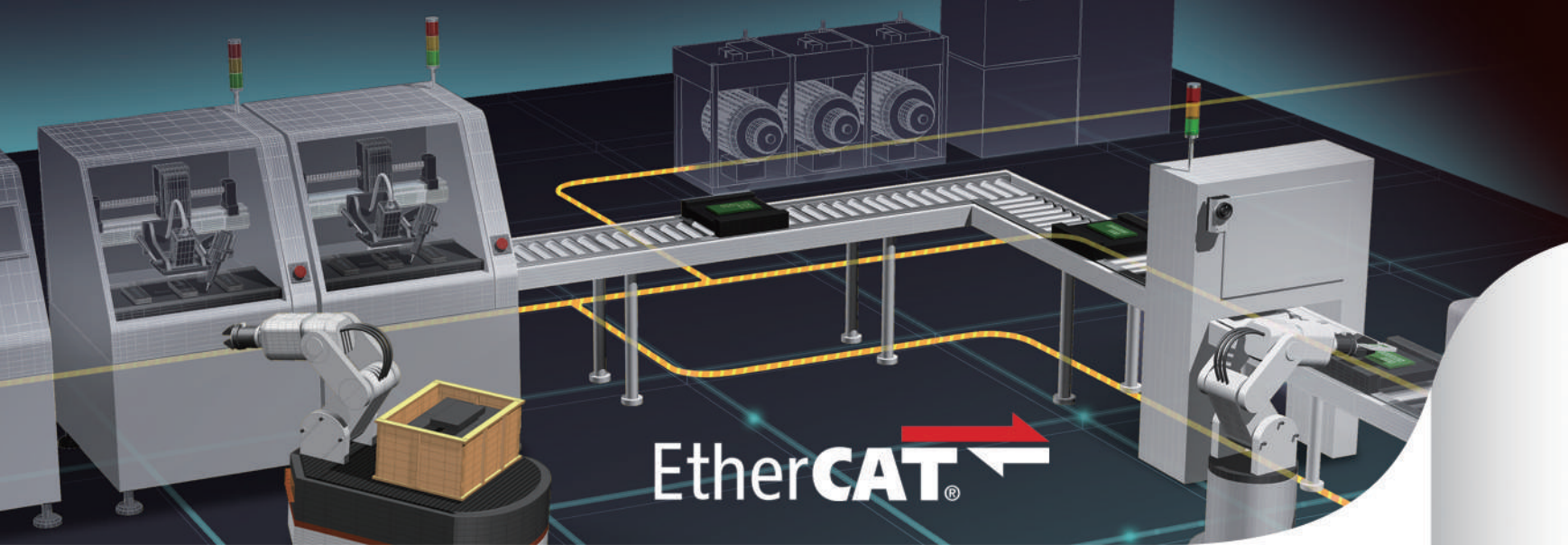
Simplify Motion, Unify Control and Maximize Efficiency

EtherCAT Motion Control Solutions



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Enabling Smart Manufacturing

Visual C/C++ EtherNET
Real-time Windows 10 Single core

EtherCAT-based automation delivers a real-time, open and scalable factory



Automation Product Software (APS SDK)
400+ motion functions with no-code testing

Learn More
EtherCAT Solutions



Streamline Automation with EtherCAT from Today to Tomorrow

Simplify Motion, Unify Control and Maximize Efficiency

The variety in equipment and processes brings operational and managerial challenges to manufacturing. The EtherCAT open and standardized communication protocol enables flexible and seamless connectivity among MainDevices, SubDevices, and sensors across different machinery, reducing the maintenance effort while meeting the evolving demands of future smart factories.



Benefits of ADLINK EtherCAT Solutions

Convenient

One stop shopping for EtherCAT controllers, SubDevices, IO modules, software and components

Compatibility

100+ validated third-party mainstream drives and motors

Cohesive

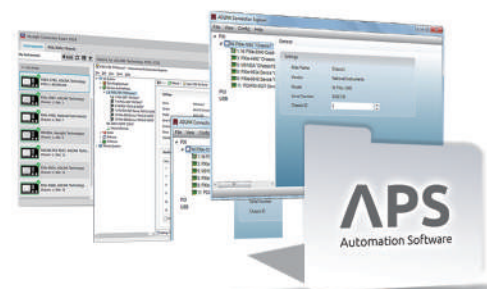
Unified Automation product software (APS SDK) for managing automation systems



Panasonic
INDUSTRY

YASKAWA

Orientalmotor



SoftMotion Controller

Maximize Motion System Performance

125µs EtherCAT cycles (24-axis), up to 128-axis synchronization, and RTOS support for time-critical motion control applications

Motion and Vision

Facilitates machine control needs such as motion control, machine vision, data acquisition, and AI analytics

Wide Choice of Validated ADLINK IPCs

Choices include ATX motherboards, single-board computers and fanless embedded computers



SuperCAT Series

ADLINK IPCs with built-in SuperCAT softmotion for up to 128-axis support

PCIe Motion Control Card

PCIe-8332/8334/8338

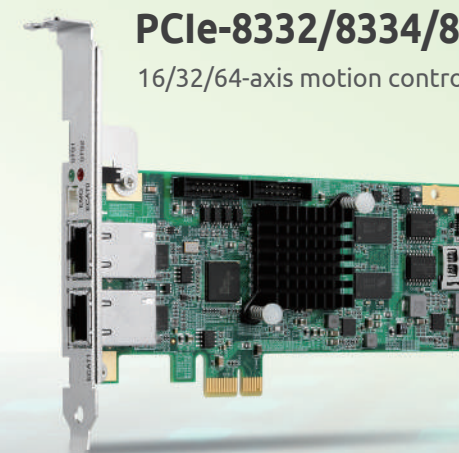
16/32/64-axis motion control card

Dedicated Emergency Stop

Reduce response time to swiftly recover from potential accidents, minimizing operational disruptions for overall safety

Hardware and OS Independent

Streamline deployment and maintenance across diverse environments



EtherCAT

