Application Stories



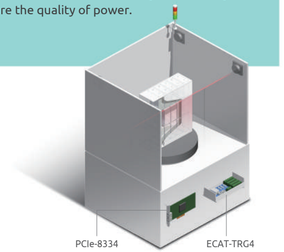
Requirements

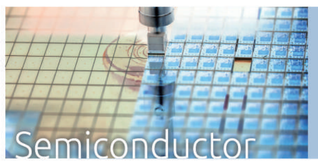
High-speed and multi-axis X-ray generator control for non-destructive inspection and analysis of battery pack to ensure the quality of power.

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*





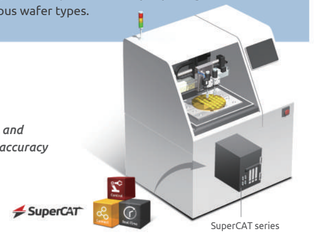
Requirements

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.

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*





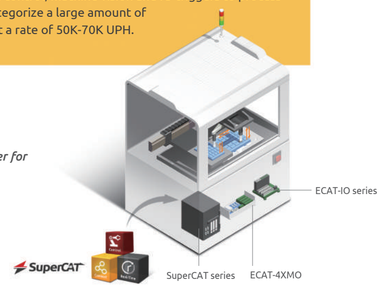
Requirements

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.

LED Chip Sorting

Why ADLINK:

- *Achieve 125µs motion control cycle and 10HMz 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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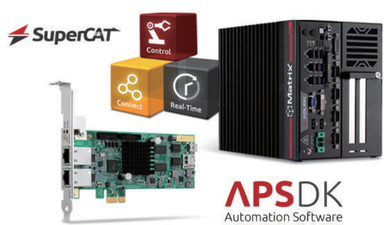
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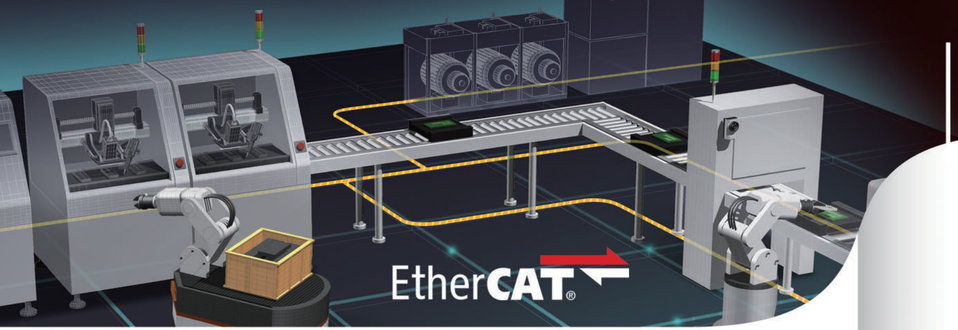
ADLINK
LEADING EDGE COMPUTING



EtherCAT Motion Control Solutions



EtherCAT®



Enabling Smart Manufacturing

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

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

APS Automation Software

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

Panasonic INDUSTRY
YASKAWA
Orientalmotor

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

APS Automation Software

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

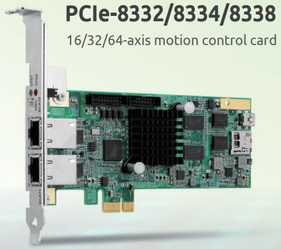
Wide Choice of Validated ADLINK IPCs
Choices include ATX motherboards, single-board computers and fanless embedded computers



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

PCIe Motion Control Card

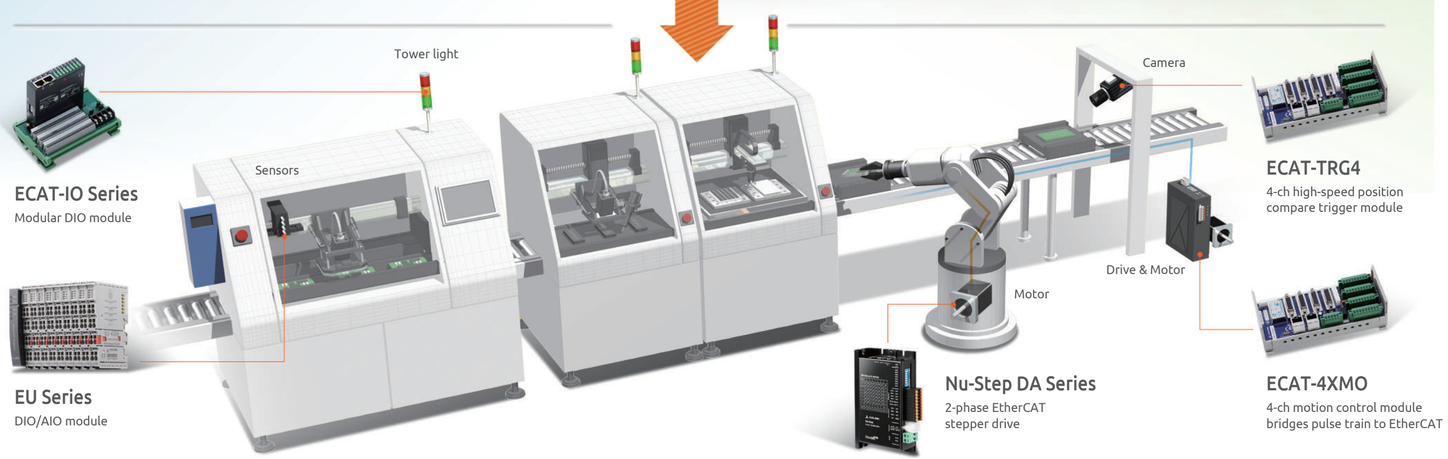
PCIe-8332/8334/8338
16/32/64-axis motion control card



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



ECAT-IO Series
Modular DIO module

ECAT-TRG4
4-ch high-speed position compare trigger module

EU Series
DIO/AIO module

Nu-Step DA Series
2-phase EtherCAT stepper drive

ECAT-4XMO
4-ch motion control module bridges pulse train to EtherCAT