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ADLINK
LEADING EDGE COMPUTING



Comprehensive Smart Manufacturing Solutions



Product Brochure

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Visualize Your Field Site for Faster Data-to-Decision

EdgeGO-empowered smart manufacturing solutions that deliver maximum efficiency and security

EdgeGO

"From Automation to Autonomous" has become the latest goal for smart manufacturing, allowing production equipment to independently communicate to prioritize operation processes, detect and analyze abnormalities, and send notifications to OT managers, all via real-time data acquisition. ADLINK's EdgeGO-empowered smart manufacturing solution enables remote management of edge devices, including industrial PCs, smart cameras, and smart data acquisition cards (DAQs) on a single platform.



Why ADLINK

Rely on ADLINK to support you through the process of choosing, configuring, and implementing your solution. Our 25 years of experience in industrial automation have earned us recognition, most recently as one of **BISinfotech's Top 10 Industrial Automation Manufacturers in the World.**

We can put that experience to work for you as you take your operation one step closer to evolving into a smart factory.



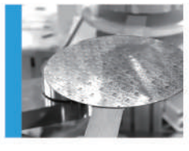
Complete Automation Solutions

- Motion control & machine vision
- Data acquisition & PXI control and chassis
- Edge AI vision analysis platform
- AMR
- All-in-one HMI



Local Engineering Teams

- Dedicated to the specific needs of customers in different regions
- Ability to collaborate face-to-face



Deep in Vertical Markets

- Semiconductor
- Optoelectronics
- Electronics Manufacturing
- ESG



Capability

- Electrical, mechanical, firmware & software
- Board- to system-level



Ecosystem Alliance

- Strategic partners with Intel, Nvidia, Arm, Qualcomm
- Worldwide AI software partners
- Leading motor suppliers



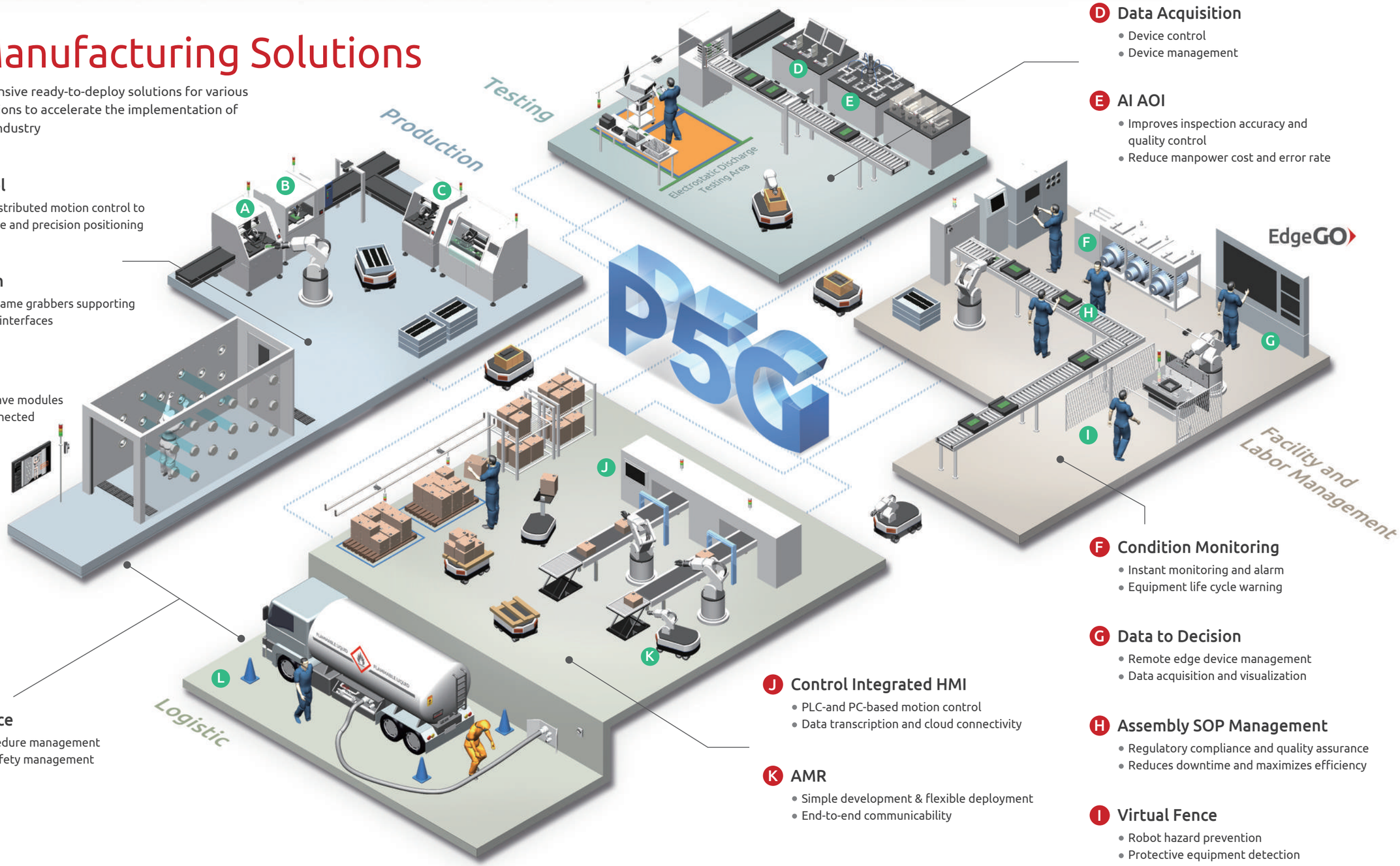
Validation

- Aligned with regulatory labs to help support necessary agency approvals
- Humidity, Altitude, EMC, Temperature, Vibration, Salt spray, Shock tests

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Smart Manufacturing Solutions

ADLINK offers comprehensive ready-to-deploy solutions for various automation control solutions to accelerate the implementation of Smart Manufacturing in industry



A Motion Control

- Centralized and distributed motion control to match performance and precision positioning

B Machine Vision

- Full spectrum of frame grabbers supporting digital and analog interfaces

C IO Sensing

- Comprehensive slave modules for the bridge connected to EtherCAT

D Data Acquisition

- Device control
- Device management

E AI AOI

- Improves inspection accuracy and quality control
- Reduce manpower cost and error rate

F Condition Monitoring

- Instant monitoring and alarm
- Equipment life cycle warning

G Data to Decision

- Remote edge device management
- Data acquisition and visualization

H Assembly SOP Management

- Regulatory compliance and quality assurance
- Reduces downtime and maximizes efficiency

I Virtual Fence

- Robot hazard prevention
- Protective equipment detection

J Control Integrated HMI

- PLC-and PC-based motion control
- Data transcription and cloud connectivity

K AMR

- Simple development & flexible deployment
- End-to-end communicability

L SOP Compliance

- Fab cleaning procedure management
- Hazmat offload safety management

Product Solutions

EdgeGO



Motion Control and IO Sensing



Machine Vision



Edge AI Vision



Data Acquisition



PXI Chassis & Controller



Autonomous Mobile Robot

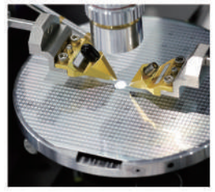


HMI Panel PC



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Powering the Semiconductor Manufacturing Process

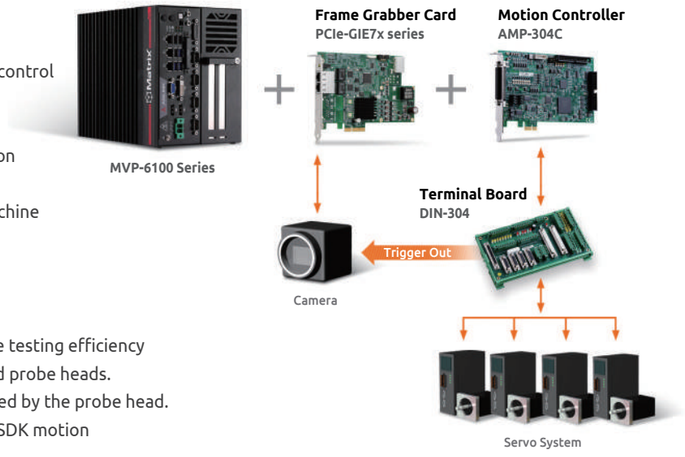


High Efficiency, Precision IC Probe Testing

The electrical input of the silicon wafer measurement signals is invisible to the naked eye. To ensure the probe head accurately touches the wafer, simulation generates a real-time response based on the analog signal between the probe and the wafer.

Solution Features

- High-speed and high-precision Z-axis motion control function increases accuracy up to 0.1μm
- No vibrating to execute subsequent testing, continuous route detection shortens operation time by 15-20%
- Exceptional compatibility and usability of machine components with unified PC-based interface



Customer Benefits

- Ensured timeliness, enhancing the over probe testing efficiency
- Lower damage ratio and cost of both dies and probe heads. Dies will accurately be tested and not damaged by the probe head.
- Reduced secondary development costs. APS SDK motion software delivers future-proof development.

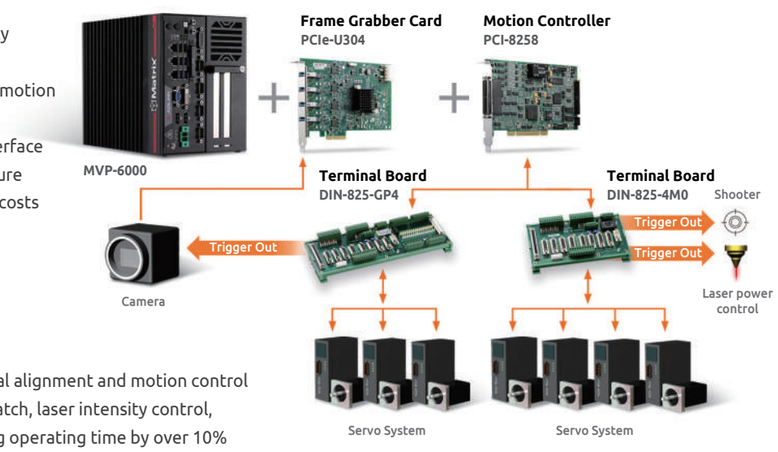


Technological Breakthrough for Laser Dicing

Advanced semiconductor's manufacturing processes are now sub-2nm, and still getting smaller with three-dimensional heterogeneous integration. Miniaturization of chips requires laser dicing equipment with higher precision, higher stability, higher integration, faster positioning, a simpler operating interface, easier speed planning, and instant trigger control feedback.

Solution Features

- 2D compensation support for cutting accuracy up to 0.1μm
- Built-in speed planning, PID, and closed-loop motion control system minimize tracking errors
- APS SDK software with trajectory setting interface for chip cutting to quickly set and update future processes, reducing secondary development costs
- PC-based system for improved compatibility, more I/O options for different sensors, and synchronization control



Customer Benefits

- Efficient laser dicing through integrated visual alignment and motion control
- High stability for quick positioning, sensor match, laser intensity control, and laser power switch and adjust, shortening operating time by over 10% and saving up to 25-50%
- Automatically plan a graphic path, improve cutting speed and smoothness, and enhance overall productivity.

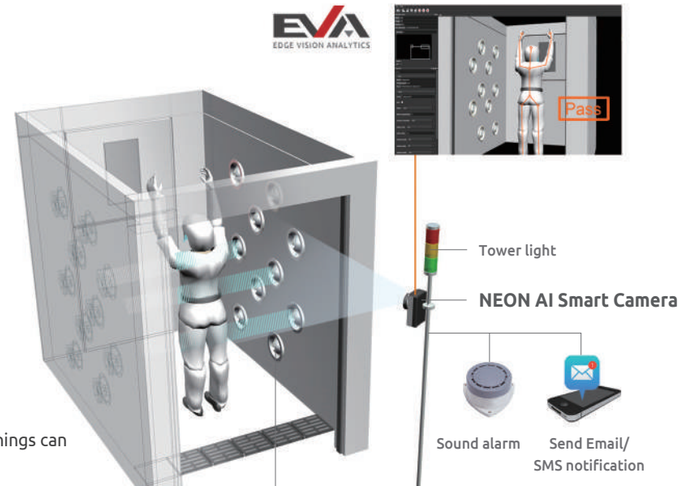


Fab Clean SOP Compliance

High-precision semiconductor factories use air showers to remove surface-deposited particles from personnel prior to them entering a cleanroom. Using AI to detect whether an employee's behavior complies with SOP can reduce the amount of dust by 80% and improve production quality.

Solution Features

- All-in-one device integrating camera and computer simplifies cabling and minimizes space requirements.
- Easy installation with VESA mounting interface eliminates the need to drill holes.
- Passing rigorous environmental certifications proves the high reliability of a fanless design.



Customer Benefits

- Increased compliance with cleaning regulations and preventing dust from entering cleanrooms, decreasing dust volume by 80%.
- Real-time three-color warning indicators and voice warnings can immediately correct staff who do not adhere to SOP.
- Users can complete all preliminary procedures, from image capture and verification to adding algorithms, in two weeks to rapidly set up and launch systems.



Intelligent Pump Monitoring

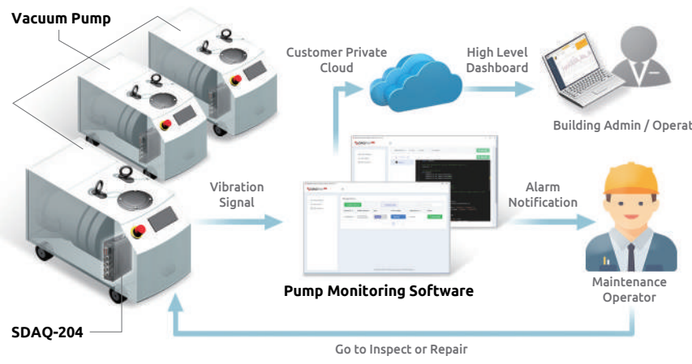
The intelligent pump monitoring solution provides more comprehensive monitoring than traditional monitoring systems and improves the operational reliability of the vacuum pumps used in semiconductor fabs by measuring vibrations to predict failures and prevent unplanned downtime.

Solution Features

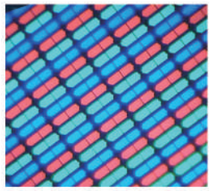
- 24/7 monitoring and alarms with automatic real time data logging, analysis and uploading, connected with SCADA system
- Non-intrusive method for easy installation without the need to cease production during installation

Customer Benefits

- Forecasts equipment issues ahead of time to prepare for earlier intervention
- Remote monitoring and alert delivery via the cloud to improve maintenance efficiency



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High-Speed Automated LED Chip Sorting

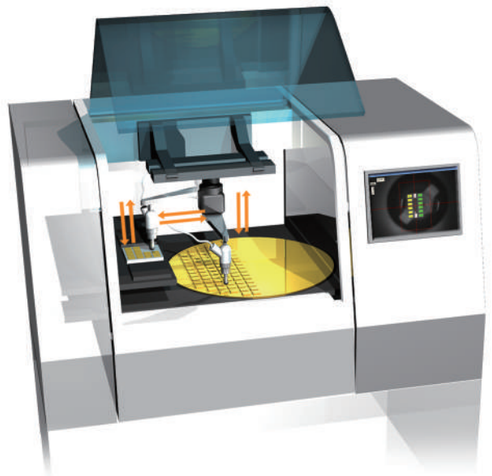
Chip sizes have become increasingly smaller while the number of units that need to be tested has conversely grown exponentially. The solution significantly increases efficiency for quality inspections of chips, allowing end users to easily achieve rapid feedback response, striking an optimal balance between speed and accuracy.

Solution Features

- High speed video capture, simultaneous multiaxial control integration
- Fast and accurate positioning, rapid feedback response
- Exceptional compatibility and usability of machine components with unified PC-based interface

Customer Benefits

- Quickly classifies the die level that matches the required specifications
- Enhances the speed of motion control systems to keep up with production efficiency
- Overcomes the complexity of integration through multi-axis synchronous control





2D Codes and Pick-place Solution

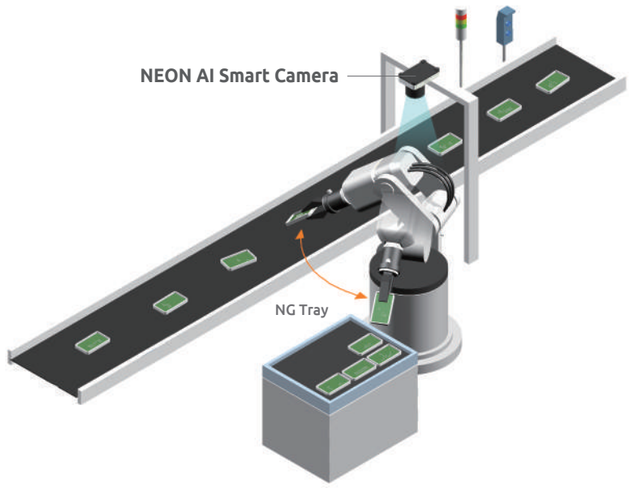
This solution supports 2D barcode readers without requiring a professional visual preprocessing background and can be used immediately after installation. It can efficiently decode QR-codes and Data Matrix codes without programming skill. Not only is decoding supported, this solution can also provide the 4-point coordinates and rotation angle of a 2D barcode. The 2D-code angle information can be used to confirm the orientation of the scanned component, and if misaligned, information can be sent to the next process to avoid improper assembly. 2D barcode coordinates can be used to inform PLC and robots of component orientation and how to grasp them.

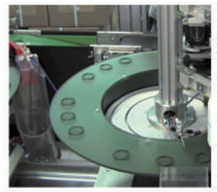
Solution Features

- Provides pick and place systems with angle and position information
- Improves high decode-rate for QR & Data Matrix code (with AI JNX system)
- Increases 150% FOV over competitors
- Ready to use, no programming needed

Customer Benefits

- NEON 2D barcode reader reduces significant cost without a Vision license/tool
- 150% FOV lowers costs
- Compatibility with the C-mount lenses for post-assembly applications (8mm-35mm)





Guideway End Seal Defect Inspection

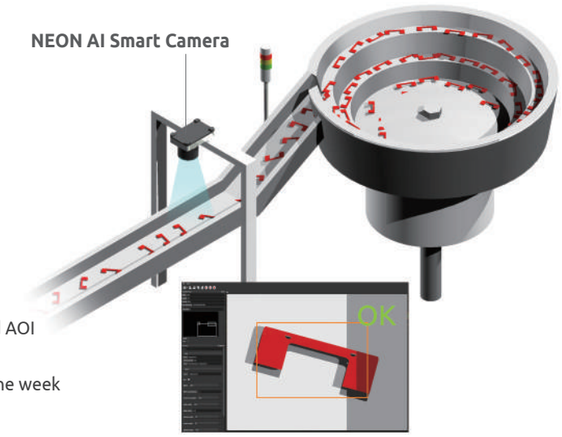
End seals are an important component of guideways. Due to the large quantity and small size of end seals, defect detection is not suitable for people. If using a rule-based AOI, it is difficult to define all the rules needed to detect the various defects that may arise, such as surface scratches, damage, and deformation. The ADLINK anomaly detection solution uses a single algorithm to cover all defect types. With this solution, image acquisition, AI model training, and an AI application are all achieved by one smart camera.

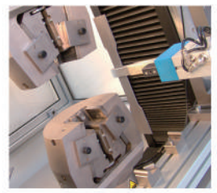
Solution Features

- All-in-one design can be directly applied to various fields
- Only a small amount of normal product data is needed to train the model for testing
- No programming skill or AI expertise required
- Handshake with other devices via DI/O

Customer Benefits

- Only normal product data is needed. Ideal for industries where defect data is not easy to collect
- One algorithm used to detect all defects, compared to rule based AOI
- Users can complete all preliminary procedures, from image capture and verification to set up and deploy the application in one week





Accelerated Automatic Material Testing

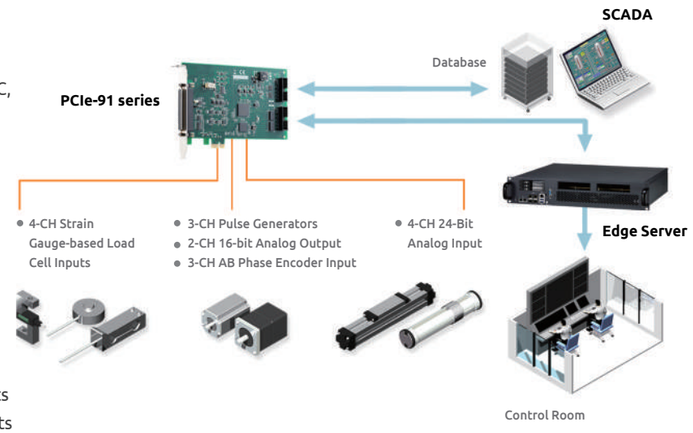
An automatic material system usually consists of signal conditioning, transducer excitation, transducer measurement, LVDT measurement, and actuator control to a stepper motor or hydraulic system. The PCIe-91 series speeds up system integration for material testing developers by combining accurate load change measurement, displacement, and motor control.

Solution Features

- Onboard amplifier, four load cell inputs, 2.5/10 VDC, 1.0 to 4.0 mV/V, accurate up to 200,000 counts
- 4-channel general-purpose 24-bit analog inputs for high accuracy LVDT measurements
- Three pulse generator channels: one 3-axes AB phase encoder for step motor control, two 16-bit analog outputs for hydraulic systems control

Customer Benefits

- Quicker integration
- Higher accuracy with high-resolution measurements
- Supports various commonly used inputs and outputs



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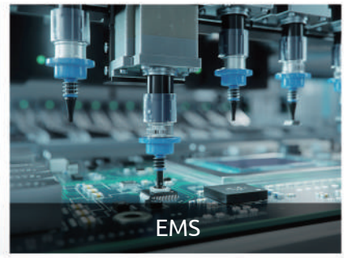
Improving Efficiency, Precision, Quality of Machine Automation

Machine automation is at the core of smart manufacturing, integrating motion, machine vision, and IO sensing to maximize efficiency, optimize visual inspection, and improve quality. As information technology (IT) and operations technology (OT) merge, ADLINK's software-defined edge controller brings highly connected efficiency and productivity to make the transformation possible.

Featured Solutions







Solution Highlights

Software-Defined EtherCAT Controller

New-generation EtherCAT solution integrates PC hardware and real-time software, bringing the flexibility of controller form factor selection and the guarantee of compatibility between motion controllers and subsystems.



Multiple Camera Interface Standards

Achieve optimum results for a vision system and fulfill a wide range of imaging processing bandwidth and camera interface standards with extensive frame grabber selection.



Application Level Software

Reduce development time and complexity through application level ready API and driver framework for a wide variety of machine automation applications in motion and vision.

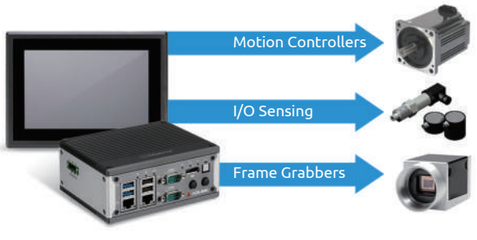


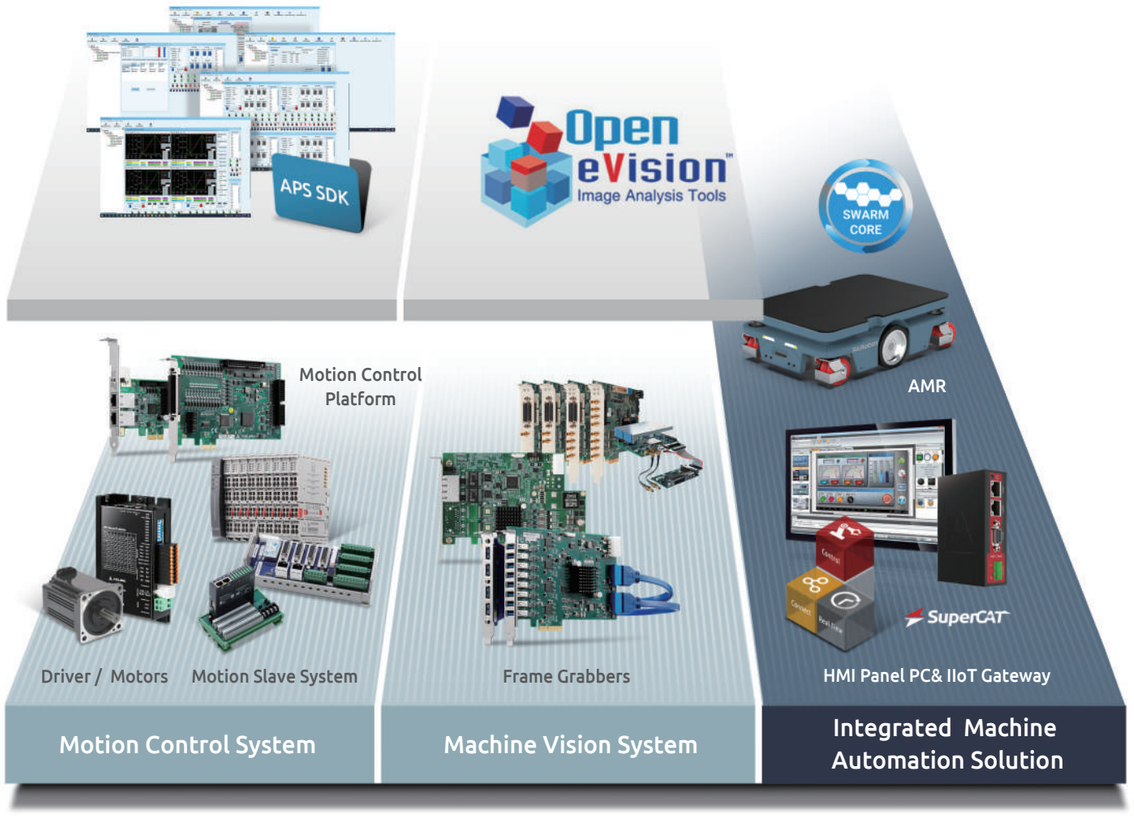
APS SDK

Motion Creator Pro 2

One-Stop Integrated Solution

Simplify your system deployment with a highly integrated product portfolio including motion controllers, frame grabbers and IO sensing to meet and exceed customer requirements, supporting the setup of smart factories.





Featured Products

SuperCAT



Software defined EtherCAT motion controller

PCIe-833X series



16/32/64-axis PCIe EtherCAT Master Motion Controller

ECAT IO



EtherCAT IO Slave Module

SMR250/1000 series



Swarm-native AMR powered by SWARM CORE® for optimized intralogistics efficiency

PanKonix Series-HMI Panel PC & IIoT Gateway



Control/Gateway/Display All-in-One Industrial Panel PC and Control/ Gateway Protocol Conversion

PCIe-10GPoE



2-ch PCI Express® 10 GigE Vision PoE+ Grabber

PCIe-U300 Series



4/8/12-ch PCI Express x4 Gen2 USB3 Vision Top Performing Frame Grabbers

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A wide Selection of IO Sensing

ADLINK digital I/O cards are widely used in many industrial-grade applications, such as monitoring the status of devices in factories, environmental monitoring, process monitoring, industrial on/off control, and switch status sensing. In order to meet the maximum application flexibility of connecting devices, we provide TTL I/O, isolated I/O and power adapter output to support high-speed, high-current, high-density, isolation and circuit protection requirements, supporting up to 256 channels of data input and output.



SuperCAT, the software-defined EtherCAT to realize fast response machine automation

ADLINK SuperCAT is a software defined EtherCAT motion controller able to support up to 128 synchronized axes and over 10,000 points simultaneously. To enable high-quality and high efficient production, SuperCAT supports up to 125μs control cycle to optimize synchronous I/O performance, especially in semiconductor and electronics manufacturing industries. With the supported APS function library, SuperCAT is able to generate multi-dimensional, highly synchronized, and event-triggered motion and I/O control of a wide range of third-party EtherCAT slaves.

SuperCAT



Multi-axis Synchronization

Supports up to 128 axes synchronously to execute more motion functionalities

High Response Control

Shortens response time up to 125μs for high-speed applications

Space-saving and Flexible Configuration

No control card needed. Release more space for other functions and lower overall cost by 30%

Platform Selections: CAT-PAC Series



Intel Atom® Processor E3900 Family-Based Ultra Compact Embedded Platform with optimum I/O design for maximum connectivity.



9th Gen Intel® Core™ i7/i5/i3 & 8th Gen Celeron® processor-based expandable computer with flexible modular expansion



9th Gen Intel® Core™ i7/i5/i3 & 8th Gen Celeron® processor-based embedded fanless compact computer optimized for edge computing applications

Learn More

Featured Products



PCIe-7853

Master-slave distributed motion and I/O master controller

- Connected I/O points: up to 2,016 points
- RJ45 jack for easy installation
- Software selectable transmission speed: 3/6/12 Mbps for HSL
- Non-volatile RAM onboard



HSL-DI16DO16-M-NN

16-ch discrete input 16-ch discrete output module

- Input voltage: ±40 V (Max)
- Output switching capacity: Single channel 500 mA; all channels 60 mA at 24VDC
- Photo couple isolation voltage: 2500 Vrms
- Input impedance: 4.7 KΩ



HSL-TB32-M-DIN

32-ch I/O terminal base

- Field I/O wiring connection for HSL I/O modules
- Spring terminal for easy field wiring
- Power and ground included for each signal channel
- Interlocking design for rugged installation
- Power LED indicator



PCIe-6208

8-CH 16-Bit PCI Express analog output card

- 4-CH TTL digital inputs and 4-CH TTL digital outputs
- Bipolar analog output range
- 8-CH voltage outputs
- 16-bit D/A resolution



PCIe-7396

96-CH high-driving DIO card

- Supports a 32-bit 5V PCI Express bus
- 96-CH digital TTL inputs/outputs
- High driving up to 48 mA (sink) and 15 mA (source)
- Emulates 4/2 industry standard 8255 PPI (mode 0)
- Ports are independently configurable as input or output



MNET-4XMO-(C)

Distributed 4-axis motion control module (with high-speed trigger function)

- Up to 256 axes on a single Motionnet network
- Transmission speed selectable: 2.5/5/10/20 Mbps
- Maximum wiring distance: up to 100 meters
- 4-axis pulse train output channels; frequency up to 9.9 MHz
- Encoder frequency up to 20 MHz under 4xAB feedback mode



PCIe-7856

Master-slave distributed motion and I/O master controller

- Up to 256 axes on a single Motionnet network
- Connected I/O points: up to 2,016 points
- Programmable timer interrupt
- Transmission speed: 3/6/12 Mbps for HSL ; 2.5/5/10/20 Mbps for Motionnet



NuDAM-6100 Series *Modules supporting Modbus RTU protocol*

- The NuDAM modules provide direct communications with a wide variety of sensors; perform signal conditioning, scaling, linearization and conversion; can acquire measurements of temperature, pressure, flow, voltage, current; and handle multiple digital signal types broadly used in IoT and other industrial applications, such as facility monitoring, environment monitoring, and industrial process control. The new ND-6117, ND-6124, ND-6150, and ND-6160 modules feature Modbus/RTU as the best remote data transmission protocol, which provides customers a comprehensive product offering.

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Revolutionize Your Automation Control Process

Control/Gateway/Display All-in-One HMI Solution



The ADLINK PanKonix® Series HMI Panel PC is the all-in-one solution for industrial control, gateway, and display functions. Powered by the SuperCAT® software-defined motion controller, the PanKonix® Series offers cost-effective and easy integration, along with a customizable user interface that includes network-enablement, cloud connectivity, push notification, and simplified multi-IP management. Experience the future of industrial control with the ADLINK PanKonix® Series HMI Panel PC.

Full Control

Seamless motion control with application-ready functions

EtherCAT, Modbus, CANopen

Easy Gateway

Real-time automatic data transcription and cloud connection

{RESTful API}, MQTT, OPC UA

Clear Display

Intuitive customizable UI with smart operational functions

AUO Display+



Learn More

PanKonix Series - HMI Panel PC

Control/Gateway/Display All-in-One Industrial Panel PC

- Screen size: 10.1", 15.6", or 21.5"
- Frame type: Stand or Open Frame
- Processor: Intel® Core™ i3-7100U or higher
- Memory: 4GB or 8GB
- Resolution: 1280x800 or 1920x1080

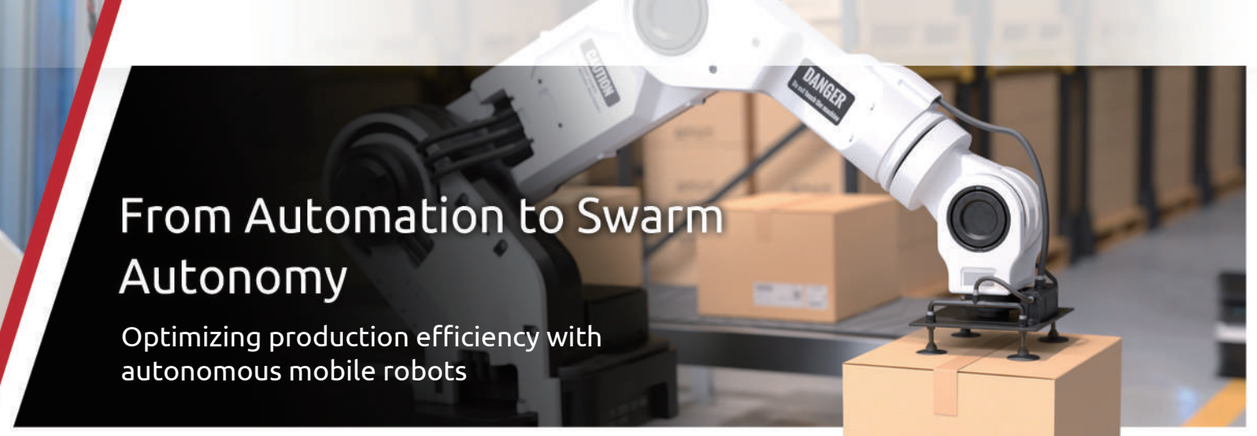


Learn More

PanKonix Series - IIoT Gateway

Control/Gateway Protocol Conversion

- Supports a variety of PLC protocols including OMRON, Mitsubishi, and Siemens
- Cloud service connectivity through OPCUA, MQTT, and RESTFul API
- TI Sitara AM3352 ARM Cortex-A8 1GHz CPU
- 2x Ethernet Ports, 2x COM Ports
- Isolated Communication Port



From Automation to Swarm Autonomy

Optimizing production efficiency with autonomous mobile robots

In the age of the Internet of Things, it is critical for smart factories to have seamless device integration and communication. With factories having multiple automated systems, the challenge is how to effectively achieve greater efficiency through equipment autonomy; this is the goal of Swarm Autonomy. With AMR autonomous robots and a 5G private network, ADLINK is helping manufacturing industries upgrade their systems from automated to autonomous.



Easy Integration

Easy heterogeneous integration between cross-brand vehicles, devices and IT & OT systems

High Flexibility

Innovative fleet management system for dynamic environments

High OEE

Optimized intralogistics efficiency with effective communication, configuration and deployment

Swarm Ready Offerings



SMR Series

Compact, sturdy, and intelligent AMR for optimized intralogistics efficiency

- 1.5/1.0 m/s max speed with full load
- 8 hour full load operating time with 70-90 minute charging
- Optimized space utilization including navigation in 80/103 cm aisle width
- Top-Module Compatible

SWARM CORE®

Autonomy software for easy configuration, operation, and monitoring

- All-in-one robot, equipment controller
- Event-based dynamic rescheduling system

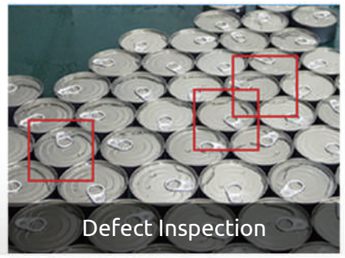
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Enabling AI Vision at the Edge

AI edge computing enhances production tasks like quality inspection, surface irregularity detection, and cargo label recognition by using machine learning and image processing to perform real-time adjustments, leading to improved stability, reduced latency and increased efficiency in operations, resulting in increased accuracy and reduced development time.

Featured Solutions







Solution Highlights

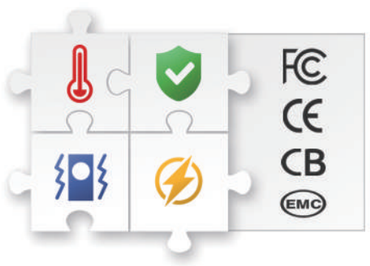
Optimized for Vision Applications

Tightly integrated hardware and software, already verified for compatibility, providing AI developers a convenient launchpad for their projects.



Worry-Free Reliability

CE/FCC/Safety verified to reduce EMC/ESD issues. Shock, vibration and temperature cycle validated for stability.



High AI Inference Compatibility

Supports leading AI inference engines such as ONNX and TensorRT for seamless connection between AI model training to inference.



No-code and Low-code AI PoC Development

Intuitive GUI for fast and easy AI inference pipeline development, 2 weeks to PoC





Featured Products

NEON-2000-JNX/JNO



NVIDIA® Jetson Xavier™ NX/Nano™-based industrial AI smart camera

NEON-2000-JT2-X



NVIDIA® Jetson™ TX2-based IP67-certified AI smart camera

EOS-JNX-I



NVIDIA® Jetson Xavier™ NX Edge AI Vision Inference System for AI Surveillance

EOS-JNX-G



NVIDIA® Jetson Xavier™ NX Edge AI Vision Inference System for AI AOI

EVA Software



Edge Vision Analytics (EVA) Software Development Kit (SDK) for ADLINK AI Vision Products

AI Camera Dev Kit



NVIDIA® Jetson Nano™ based AI Vision Developer Kit

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Edge AI Vision Platform

ADLINK AI Vision Solutions are ideal for visual inspection, object detection, automatic number plate recognition, and behavior monitoring, with all the intensive processing done on the device. Labor-intensive industries such as food sorting, logistics, packaging, and farming can all benefit. The various AI Vision Solutions perform product sorting and classification tasks, and quality assurance.

Ready to Go Edge AI Vision with All-in-One Camera

- Integrated MIPI camera module & drivers save integration effort, reducing cost
- CE/FCC/Safety verified to reduce EMC/ESD issues. Shock, vibration and temperature cycle validated for stability.
- With FPGA-based DI/O design, the NEON series AI Smart Camera provides accurate hardware triggering, and the USB Type-C hub reduces cable connections, making it ideally suited for machine vision applications in automated manufacturing.



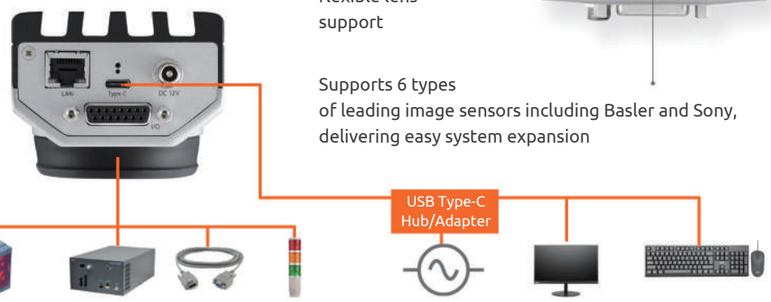
C-mount flexible lens support

Supports 6 types of leading image sensors including Basler and Sony, delivering easy system expansion



microSD slot for external storage

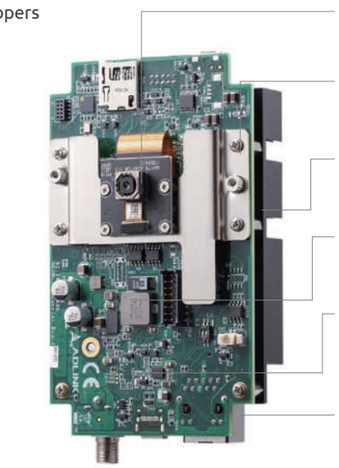
Micro USB for flashing the system



Affordable, Fast, and Infinitely Expandable AI Prototyping

To address the AI Vision market and help developers with rapid testing and prototyping, ADLINK has created the AI Camera Development Kit, designed to provide engineers a prototyping platform to streamline industrial AI vision application development.

NVIDIA PREFERRED PARTNER



- 8MP MIPI camera module with integrated lens
- V4L2 video interface for NVIDIA TAO and NGC resource leveraging
- Exclusive embedded EVA no-code AI vision software
- NVIDIA Jetson Nano module and carrier board
- DI/O, COM, LAN and USB Type-C port simplifies connectivity
- Pose detection and object classification AI applications and sample code pre-installed

Ultra Reliable AI Vision System Designed for edge AI Applications

Born for AI Surveillance

EOS-JNX-I

ONVIF®



Dedicated bandwidth of 1Gb per channel with 100m cable validation for high accuracy, high speed AI Vision applications

Active DO provides real-time alerts via trigger connected visual or audio warning device

100% ONVIF compliance and 1Gb uplink port for high NVR/Camera connectivity and reduced cabling

Special power design makes the video stream and PoE work continuously even if the EOS-JNX-I crashes or reboots.



Optimized for AI AOI

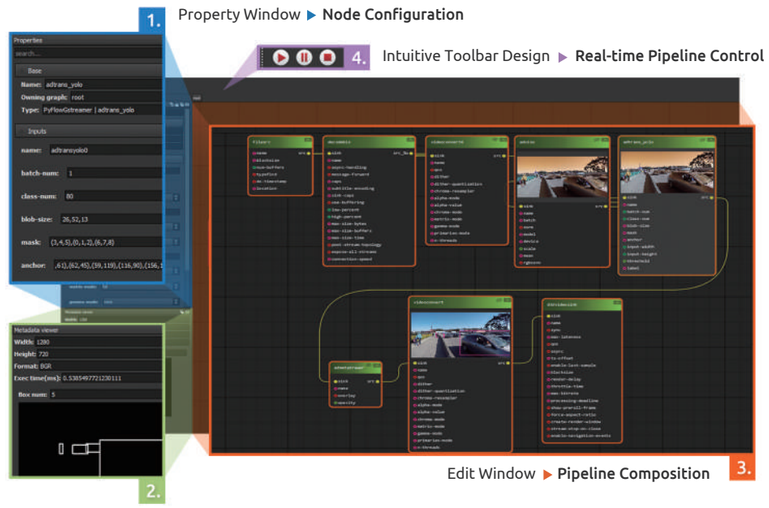
EOS-JNX-G

GiGE VISION

Low-code/no-code EVA SDK Simplifies Edge AI Vision PoC

ADLINK AI vision platform supports EVA, ADLINK's edge vision analytics software, which serves as a unified platform for streamlining AI vision project deployment in a heterogeneous computing environment.

- Supports 10+ camera protocols and field-ready application plugins
- Supports TensorRT and OpenVINO AI inference engines
- No-code/low-code IDE AI development environment lowers thresholds
- Four weeks from PoC to mass deployment



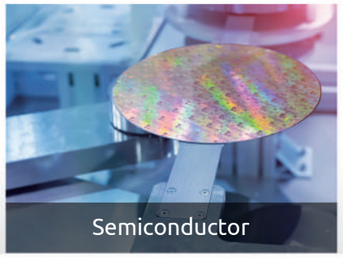
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Driving Innovation and Productivity with ADLINK's Data Acquisition Solution

PC-based test and measurement systems have been widely used in industrial equipment manufacturing, such as data acquisition, automated testing, and machine learning predictive maintenance. ADLINK continues to develop a variety of hardware and software technologies to improve the accuracy and efficiency of measurement capabilities.

Featured Solutions



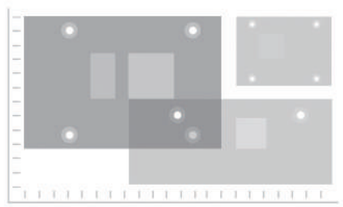




Solution Highlights

Various Form Factors

Complete hardware selection from modular chassis and controllers with PXI, PXIe platform to DAQ devices in different form factors including PCIe cards, USB modules and DAQ computers.



Precise Acquisition

With Direct sensor connection and setting, ADLINK's DAQ modules enable flexible sampling with flexible digital and analog trigger functions.



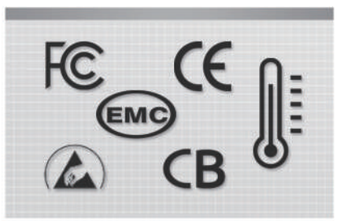
Unified Software Support

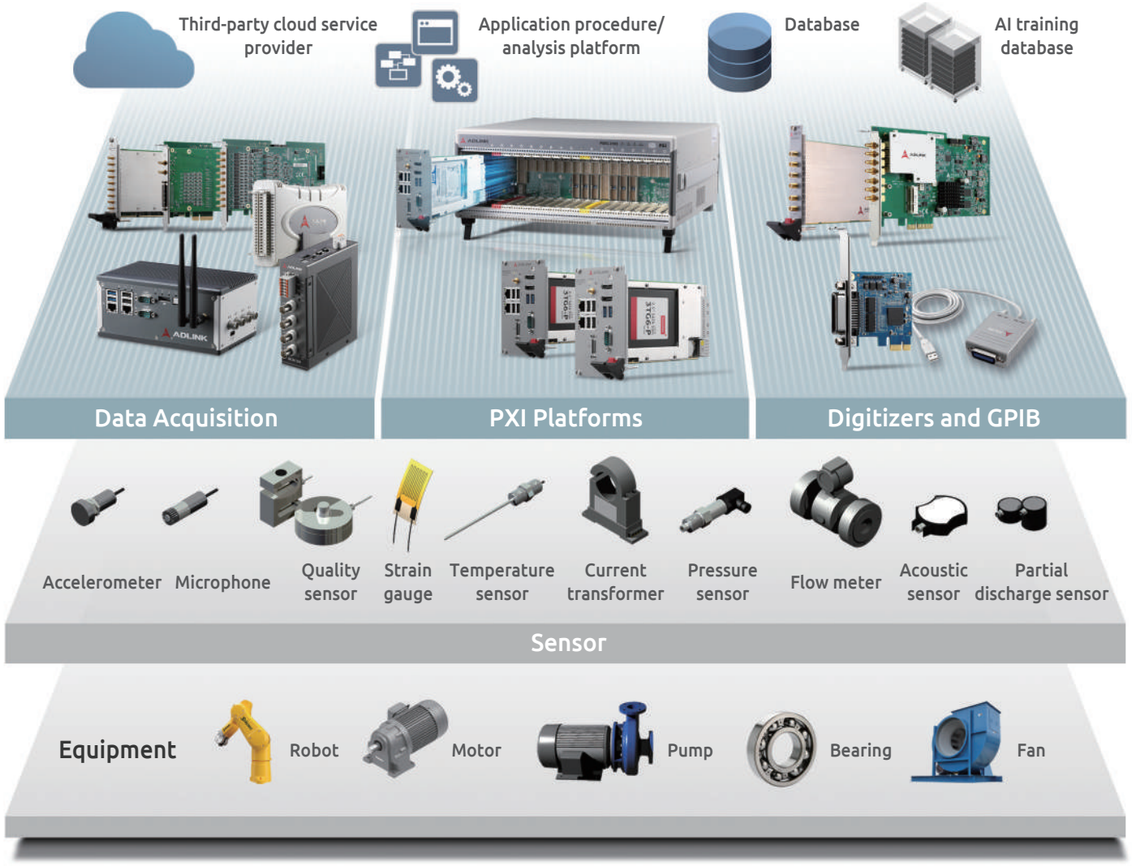
ADLINK eliminates bottlenecks with the new Measurement, Automation, and Platform Suite (MAPS), an all-in-one software solution that can be used with ADLINK's DAQ and PXI modules.



Worry-Free Reliability

CE/FCC/Safety verified to reduce EMC/ESD issues. Shock, vibration and temperature cycle are validated for stability.





Featured Products

PCIe-91 series



16 Channels, Multiplexer, High Performance, Multifunction Data Acquisition Card

SDAQ-200 series



Programmable Smart DAQ with Voltage, Current Sound&Vibration Input

EMU-200



ARM-based Energy Management Gateway

PXES-2788



18/21-slot Gen3 PXIe Chassis with High Cooling Capacity & Power Supply

PXIe-39x7-ADP series



12th Gen Intel® Core™ i7/i5/i3 Processor-based PXIe Controller

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Smart DAQ
Programmable at the edge

New Gen Python Enabled DAQ with Easier Manageability

Due to the continuous expansion of factories and the more complex monitoring environment, ADLINK's innovative edge data acquisition system with Python programming can actively monitor, analyze and take action on the real-time status of key machines and components, and accelerate deployment, simplify configuration and management, thereby increasing overall productivity.

Programmable Arm CPU
Powerful integrated ARM processor ideal for edge computing needs

Customized Algorithm Capability
Users can deploy their own data analytics Apps via the DAQPilot software utility for edge analytics and control

Plug and Play
Users can add multiple devices making it easy to achieve mass deployment

SDAQ-200 series



SDAQ-204
Vibration Input Module
4-CH Simultaneous AI, ±10 V, 24-Bit, 128 KS/s, Support ICP type sensor

SDAQ-216
Voltage Input Module
16-CH Multifunction AI, ±10 V, 16-Bit, 250 KS/s, 2 AO, 4 DIO

SDAQ-218
Current Input Module
8-CH Multifunction AI, 0-20mA, 16-Bit, 250KS/s, 2 AO, 4 DIO

DAQPilot

- Task-oriented and optimized SDK for typical DAQ applications with C/C++/C#/Python/LabVIEW
- Enables streaming of continuous time-series data via SDK
- Integrated management utility for device/iApp management
- Includes IDE to remotely develop iApps for edge data analytics
- Easy iApp mass deployment to remote devices with just one click

DAQPilot



PXI Express Platform
Solving Complex Testing Challenges



The Best Balance of Functionality, Performance and Cost

As a leading provider in Test & Measurement market, ADLINK has devoted extensive field experience to the PXI platform. After decades years developing versatile PXI product portfolio for automation and testing, and as a sponsor member of the PXI System Alliance, ADLINK continues to expand PXI and PXI Express offerings with innovative products, meeting the unique needs of high-speed and high-bandwidth applications.

Interoperability
Compatible with standard modular instruments of the T&M industry.

High Performance
Based on the latest technology, incorporating powerful multicore processors, FPGAs, and more to speed up time to market

Scalable
PXI's architecture enables synchronized measurements across multiple modules or chassis, so you can add to your systems as requirements change

Abundant Bandwidth
PCI Express Bus

Electrical Signal Noise
Isolation/Reduction

Smart Fan Optimizes Balance of Cooling
and Acoustic (noise reduction) performance



Multi-core Virtualization
High Performance Computing

Fully compatible with standard PXI/PXIe
modular instruments on the market

Industrial Leading Cooling
Capacity up to 102W

PXI Express Chassis

PXES-2788 / PXES-2788E
18-Slot / 21-Slot 3U 24GB/s High Power and Cooling PXI Express Chassis

PXES-2785
18-Slot 3U 24GB/s PXI Express Chassis

PXI Express Embedded Controller

PXIe-39x7-ADP
12th Gen Intel® Core™ i7/i5/i3 Processor-based PXIe Controller

PXI Express Remote Controller

PCIe-PXIe-8638
PCIe to PXIe Remote Controller, 4GB/s

PCIe-PXIe-8565
PCIe to PXIe Remote Controller, 250M/B

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