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ADLINK
Leading EDGE COMPUTING

Evolving Manufacturing Connectivity

Industrial IoT-based Smart Manufacturing

Measurement and Automation
Solution Guide



50-40345-0000

ADLINK
Leading EDGE COMPUTING

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Leading **EDGE COMPUTING**

ADLINK Technology is leading edge computing with products and platforms that enable computing at the edge of the network, whether that network be the public Internet or an enterprise information technology (IT)/operational technology (OT) network. With the main goal of driving data-to-decisions, ADLINK provides solutions to connect the unconnected and simplify the design, development and deployment of Industrial Internet of Things (IIoT) applications.

Through the integration of computing power, rugged design, high availability and industrial I/O, ADLINK has made a name for itself providing reliable products of superior quality for cost-effective solutions. This allows our customers around the world to significantly reduce time-to-market (TTM) burdens while minimizing total cost-of-ownership (TCO) with customization and system integration advantages, keeping manufacturing costs low and extending product lifecycles.

ADLINK is a Premier Member of the Intel® Internet of Things Solutions Alliance and is active in several standards organizations and interoperability initiatives, including PCI Industrial Computer Manufacturers Group (PICMG), PXI Systems Alliance (PXISA), VMEbus International Trade Association (VITA), Standardization Group for Embedded Technologies (SGeT), European Telecommunications Standards Institute (ETSI), and Open Compute Project (OCP).

ADLINK is a global company with a local touch. Headquartered in Taiwan, ADLINK offers manufacturing in Taiwan and China; R&D and integration in the US, Germany, Taiwan and China; an extensive network of worldwide sales and support offices; and a continually expanding partner ecosystem. ADLINK is ISO-9001, ISO-14001, ISO-13485 and TL9000 certified and is publicly traded on the TAIEX Taiwan Stock Exchange (stock code: 6166). Our products are currently available in over 40 countries across five continents, supported by worldwide distribution networks and offices and over 1600 employees.



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Platforms and Services

ADLINK offers a variety of building blocks and both generic and domain-specific platforms to serve the automation, communications,medical, transportation, infotainment and defense/government markets.

Building Blocks

The communications industry requires incremental solutions to meet the ever-growing bandwidth requirements of today's wired and ADLINK provides a wide range of Computer-on-Modules (COMs) and small form factor Single Board Computers (SBCs). ADLINK's COM offerings include COM Express®, SMARC®, Qseven® and ETX® in all sizes and pinout specifications, and our SBCs encompass a variety of form factors (e.g., PICMG 1.0/1.3, PC/104 and Mini-ITX), processors, clock speeds, memory configurations, I/O options and operating systems.

Measurement and Automation

ADLINK provides reliable, top quality products for industrial I/O control, motion control, digital imaging, data acquisition and modular instrument applications. Our comprehensive portfolio of products, application-ready platforms and easy-to-use software packages with integrated value-added service continually exceed customer requirements.

Mobile and Panel Computing

ADLINK offers rugged mobile and panel computing products for industrial applications, including automation, logistics management and healthcare. We specialize in meeting the needs of harsh and demanding environments, as well as mobile deployments in industrial settings. Our offerings include smart touch panel PCs, industrial and medical panel PCs and rugged tablets.

Embedded Computing

ADLINK works closely with Intel to ensure we develop and introduce innovative computing technologies by implementing the latest embedded computing roadmaps and by selecting computer solutions that best fit our target markets. This enables ADLINK to provide the highest quality and highest performance products with the long lifecycles required by our customers.

Rugged Computing

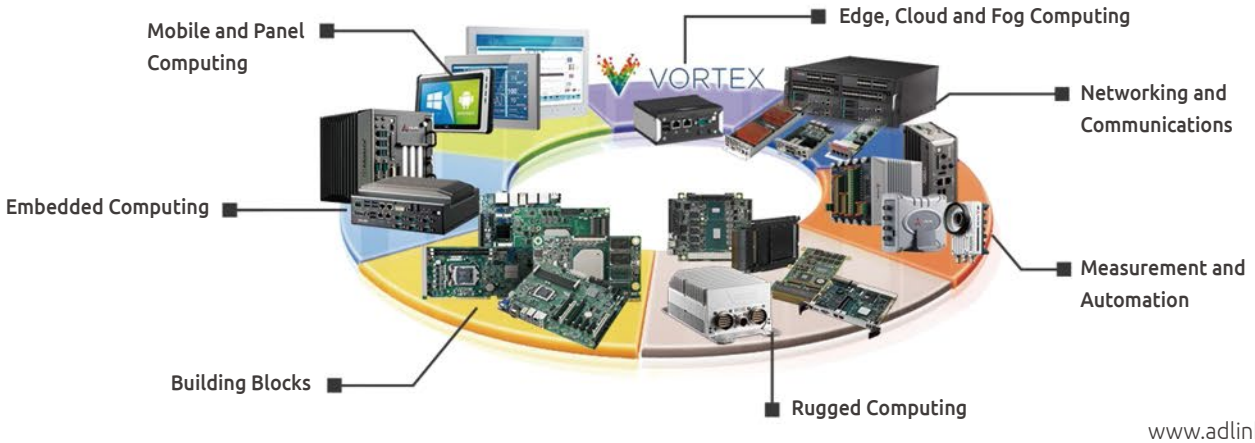
Many industries benefit from, if not require, rugged electronics. In addition to military and industrial use, professionals in medical, oil and gas, science and transportation also need hardware that stands up to punishing situations. ADLINK offers an innovative portfolio of Extreme Rugged COMs, SBCs and systems that provide wide operating temperature ranges and meet MIL-STD, shock and vibration specifications.

Networking and Communications

ADLINK has introduced several platforms for outdoor mobile edge computing (MEC), broadcasting, network security, video conferencing and video processing applications such as surveillance. Our Modular Industrial Cloud Architecture integrates the latest data center technologies with the most critical aspects of traditional industrial computing equipment, such as modular design, hardware-assisted acceleration and carrier-grade design standards.

Edge, Cloud and Fog Computing

ADLINK has added to its IoT portfolio with software solutions that enable easy system connectivity and help reduce the complexity of building IIoT applications. Using the Data Distribution Service (DDS) middleware standard to enable scalable, real-time, dependable, high-performance and interoperable data exchanges, ADLINK has moved closer to our goal of providing complete application-ready, generic and domain-specific platforms.



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Design and Manufacturing Services

To fulfill your requirement of high quality, cost-effective products, with quick TTM in product development, ADLINK has established and assembled a Design and Manufacturing Services (DMS) team to cater to the specific demands that off-the-shelf products cannot meet. ADLINK also owns and operates manufacturing facilities in our headquarters, with capabilities that include our own printed circuit board (PCB) layout teams, surface-mount technology (SMT) lines, system integration and test capabilities. In short, ADLINK controls the whole manufacturing process, from layout and design to prototyping and volume production.
ADLINK also offers a wide range of customer support services and has implemented an extensive environmental protection policy to meet the growing 'Green' standards of the electronics industry. To learn more, visit our website at www.adlinktech.com.



Customer Services

ADLINK is not only devoted to providing local service worldwide, but also to providing convenient online service. The following services are available around-the-clock on the Internet.

FAQ and Support

Our Ask an Expert (AAE) service provides answers to commonly asked questions, as well as the ability to contact ADLINK's knowledgeable staff about a specific product or issue. ADLINK's AAE is available 24/7 online and is staffed by dedicated professionals who are available to address customers' needs. All issues and comments are recorded into a database and can be tracked/reviewed at any time. ADLINK customers are invited to access the AAE system at: http://www.adlinktech.com/AAE

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Environmental Protection Policy

Environmental protection is a top priority at ADLINK. We implemented a Green Product Policy in May 2004 to align the purchasing and use of green products with requirements from international environment protection statutes. Measures have been taken to ensure that our products have little impact on the environment. In addition to planning a leadless process, we are also focused on reducing the effect of components and raw materials on the environment. The Green Product concept has been built into our new product development system to ensure protection of the environment and continued business success.

RoHS Compliant Computing

ADLINK is committed to fulfill its social responsibility to global environmental preservation through compliance with the European Union's Restriction of Hazardous Substances (RoHS) directive, which restricts the use of harmful substances such as lead, mercury and cadmium in new equipment.
Most end-user applications in which ADLINK products are used do not require RoHS compliance. However, ADLINK will actively work with customers whose products are not RoHS exempt under category 8 or category 9 classifications. Our lead-free production line and process, including solder paste, solder bar and process control parameters, has been developed and standardized in our manufacturing system.

Conflict Free Minerals Policy

ADLINK will not knowingly procure material supplies and components that contain minerals that directly or indirectly finance or benefit armed groups in the Democratic Republic of Congo (DRC) or an adjoining country. We urge our suppliers to support this policy in their own procurement guidelines and provide us with accurate country of origin information.

ADLINK shall:

- Comply fully with requests from EICC-GeSI.
- Conduct a reasonable country of origin inquiry to clarify the origins of the gold, tantalum, tungsten and tin used in our products.
- Establish reasonable objectives and targets with a goal of ascertaining and minimizing ADLINK's risk.
- With a goal of continuous improvement for our Conflict Free Minerals Program, develop a means to measure objectives and targets. ADLINK will also review, revise and report these measures, and overall program updates, on an annual basis.
- Empower all employees, suppliers, vendors and contractors to take ownership in complying with the Conflict Free Minerals Policy and to escalate risks in the supply chain to management's attention.
- Effectively communicate to all employees this Conflict Free Minerals Policy and our Conflict Free Minerals Program.

Management Flow

The management flow of ADLINK's Green Policy begins during the development stage of a product. Only parts and raw materials that meet RoHS requirements are sourced. Our engineers specifically design products using only qualified components. A lead-free process ensures that manufactured products are green. Green products do not contain environmentally hazardous elements and can easily be recycled.

REACH Declaration

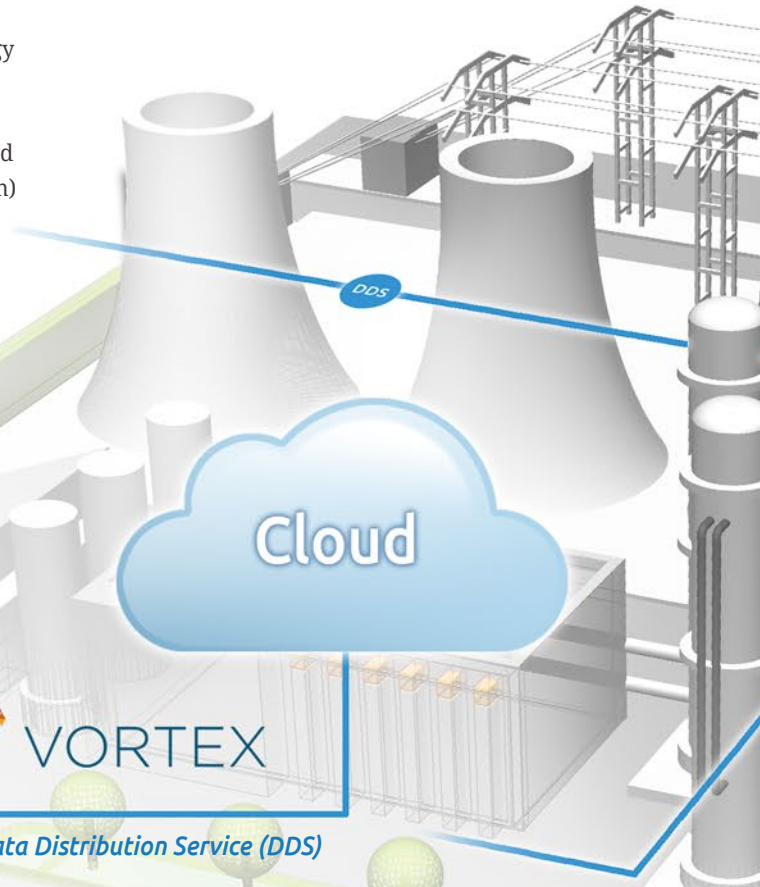
The Registration, Evaluation, Authorization and Restriction of Chemicals Regulation 1907/2006, commonly referred to as REACH, is Europe's recent chemicals legislation. The products that we supply are non-chemical products and under normal and reasonable use, they will not release harmful substance. Furthermore, we will immediately inform our customers in correspondence with REACHArticle 33 if any substance of content (as from a content of >0.1%) in our products will be classified as alarming by the European Agency for Chemicals (ECHA).

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ADLINK's Offerings for Smart Manufacturing

In manufacturing operations, emerging Internet of Things (IoT) technology has ushered in the Industry 4.0 initiative, departing from conventional automated production to IoT-based intelligent automation, improving on semi-automated or standalone automatic machining to network-connected process based on M2M (machine to machine) and M2P (machine to person) communication.

ADLINK combines market-proven technology expertise with years of experience in automation, communication, and industrial computing. Pre-validated hardware and utility integration further enable OEMs to deliver solutions to the market faster and deploy them with minimal adjustment.



Predictive Analytics



Edge Computing Server

VORTEX

Vortex Data Distribution Service (DDS)

Data Extraction & Conversion



Application Ready Platforms

Machine Monitoring



Rotary Machine Condition Monitoring

Edge Connectivity/ Processing



IoT Gateway

Robotics



Smart Camera

Intelligent Sensors/ Devices



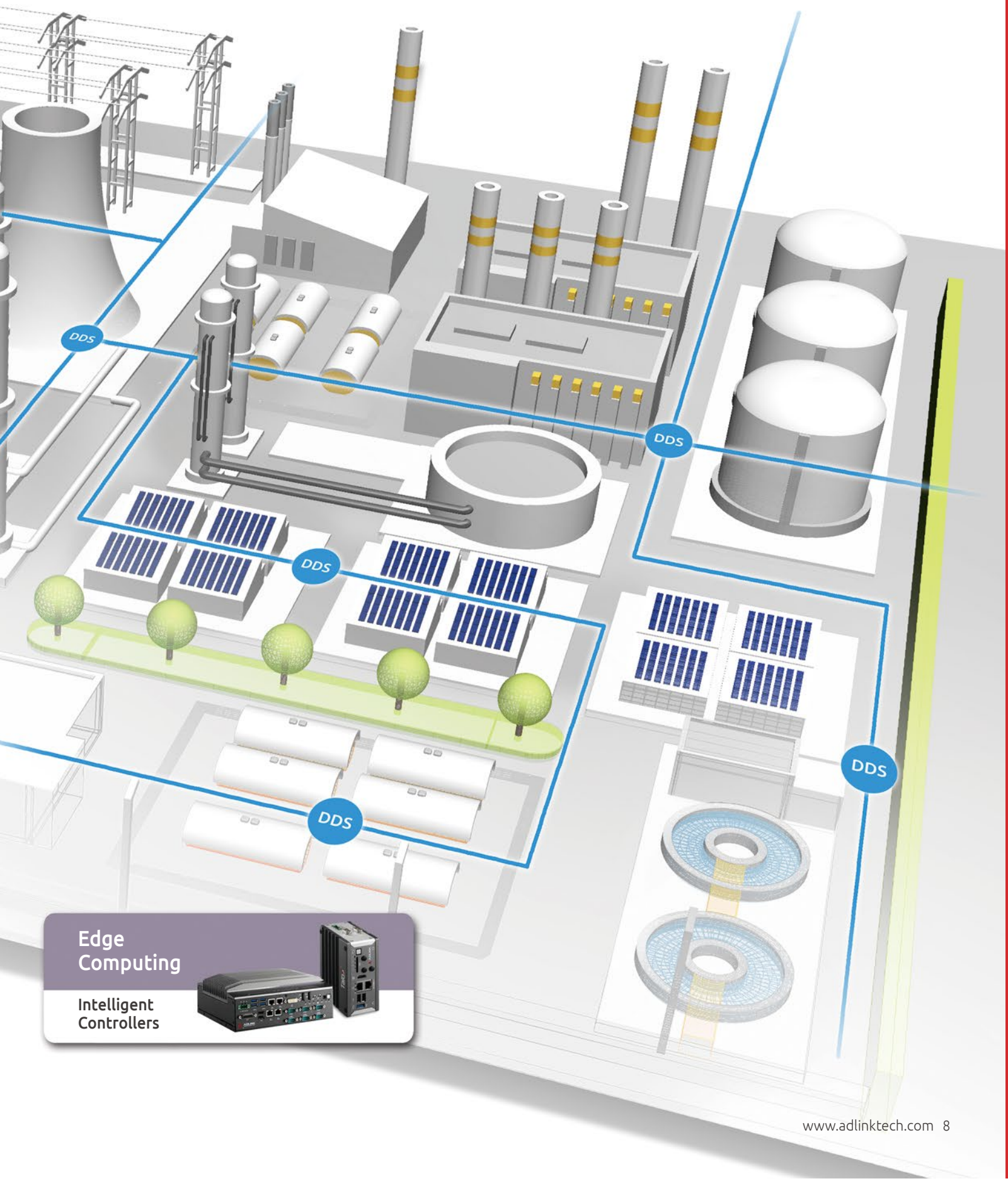
IO/RTU

Data Acquisition



DAQ/ DSA Modules

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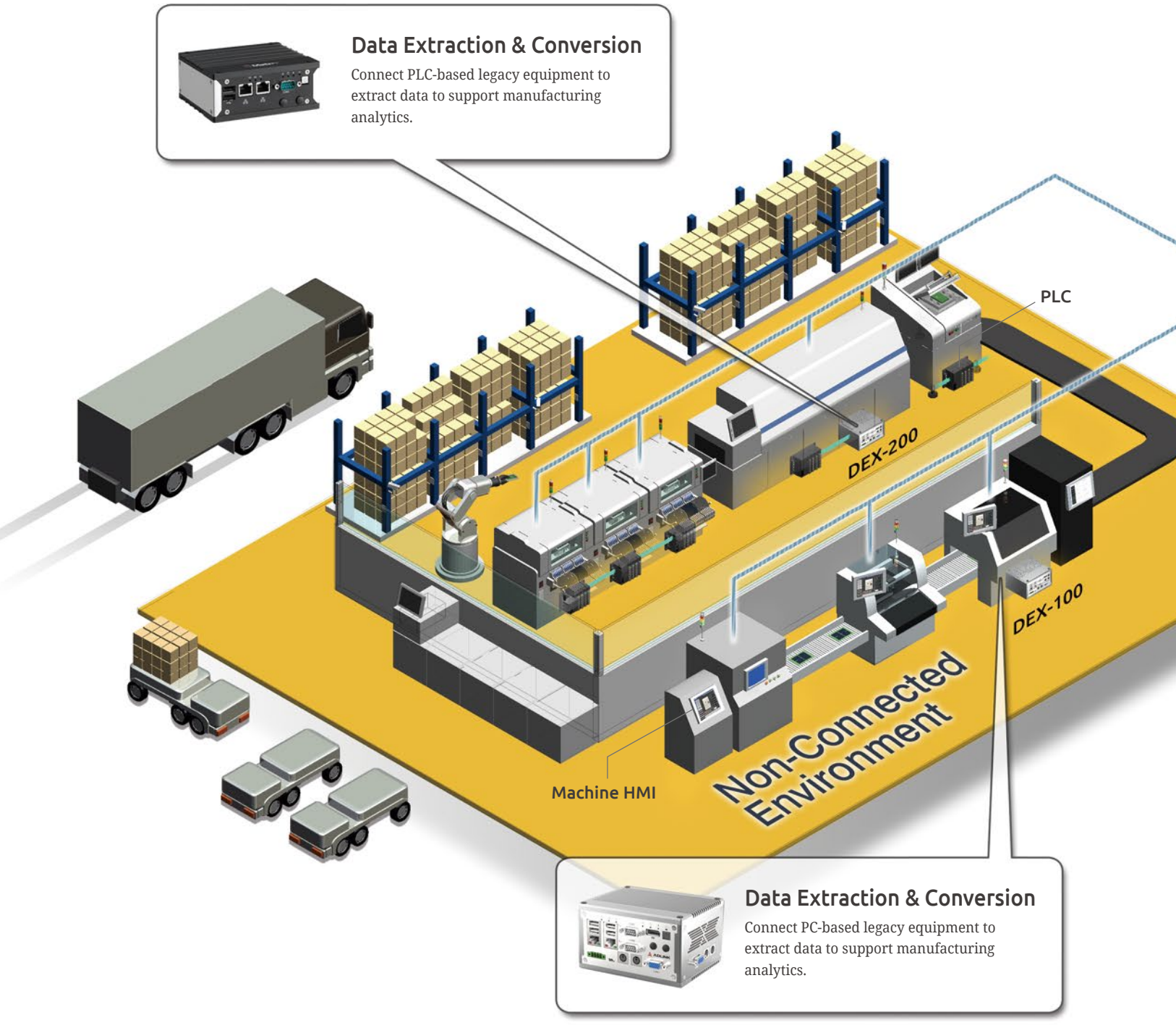


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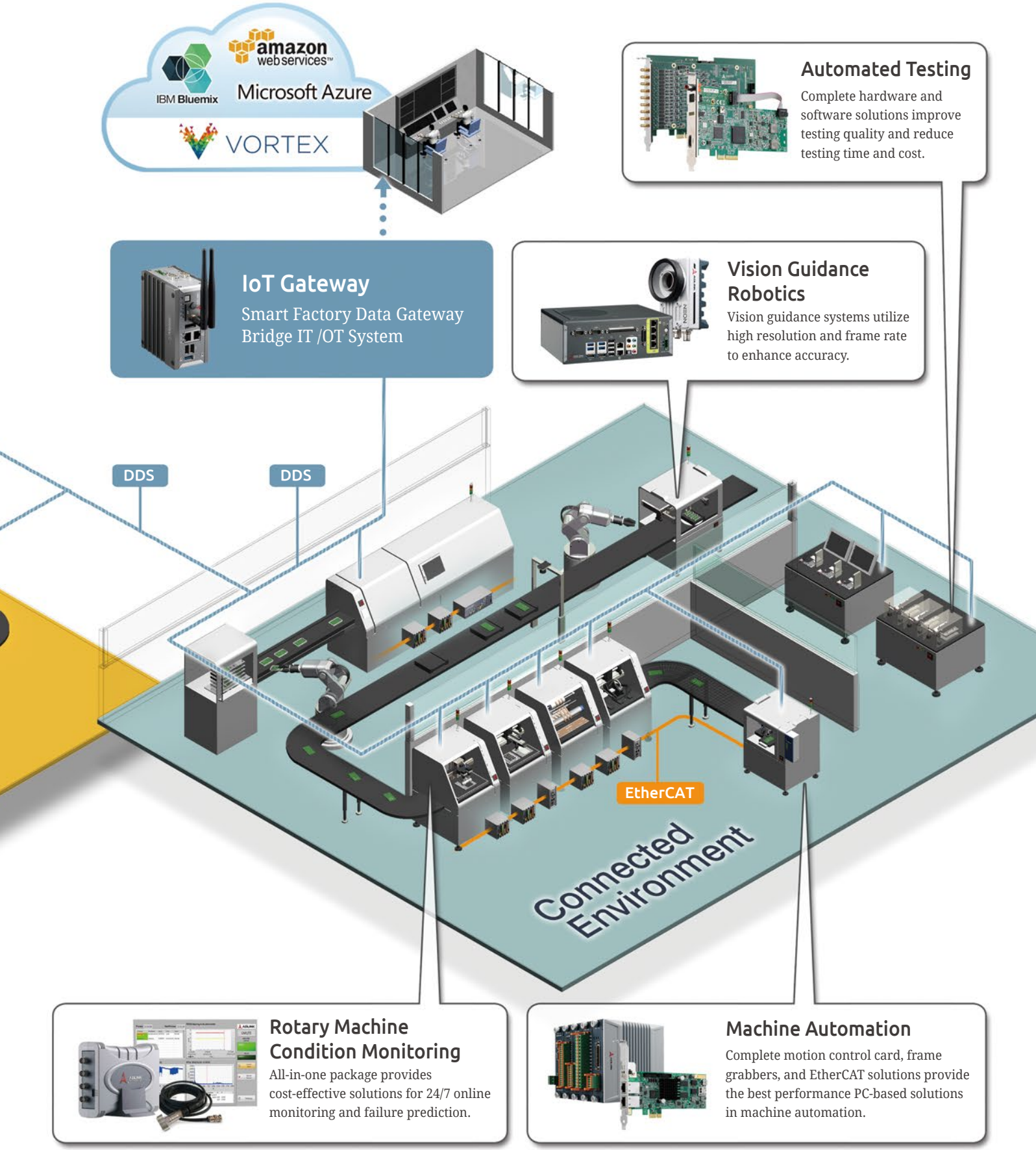
ADLINK IoT-based Smart Manufacturing

The ADLINK smart factory solution accelerates brownfield deployment, breaking down obstacles to achievement of the Industry 4.0 standard and empowering optimization of production, by leveraging the benefits of IIoT-based intelligent manufacturing, based on a comprehensive portfolio of platform elements. ADLINK enables:

- State-of-the-art edge computing platforms providing edge, cloud, and shop floor services, supporting optimization of large-scale production.
- Efficient data capture among existing elements, newly installed elements, and data analysis platforms
- Full smart production lines integrating legacy elements
- Secure, stable, and scalable connections across the entire environment



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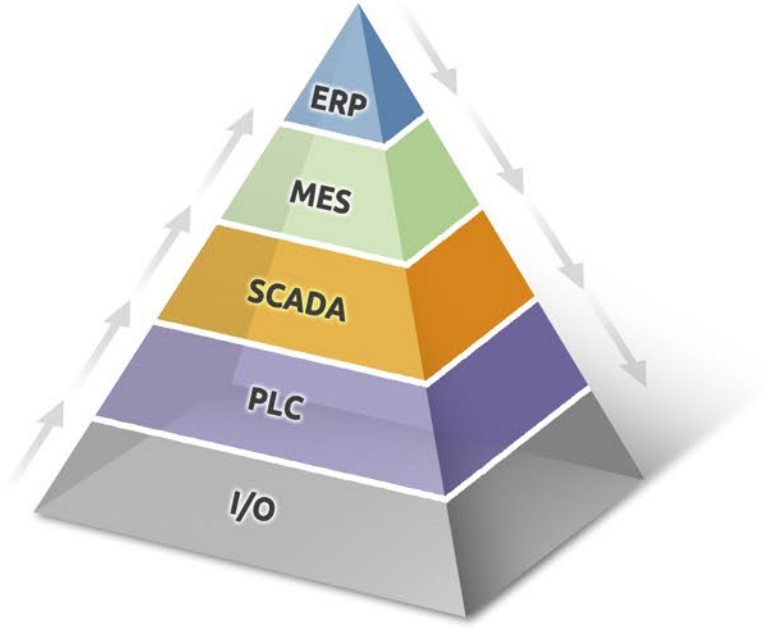


Advanced Data Sharing Platforms

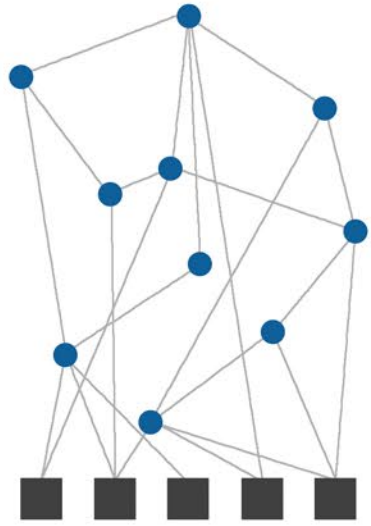
To ensure secure and reliable end-to-end connectivity, the Data Distribution Service (DDS) standard is preferred. DDS combines Publish and Subscribe-based communication with a simple, decoupled and distributed architecture. It has distinct advantages for time-deterministic applications demanding high levels of reliability and scalability.

Today → **Future**

5-layer architecture



Cyber-physical system (CPS) based automation



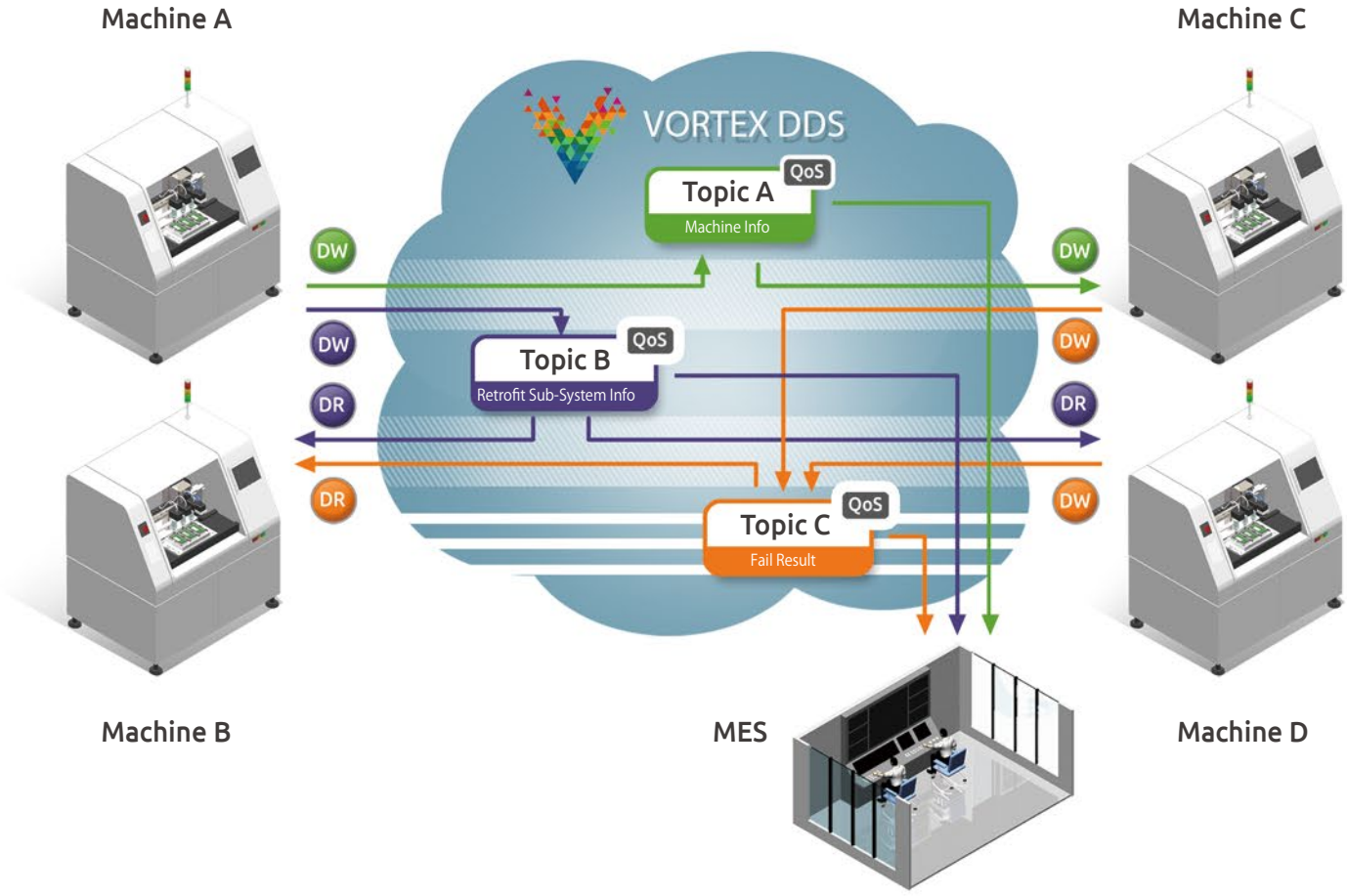
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Real-time, Secure M2M Solution

A decentralized Data Distribution Service (DDS) connectivity solution improves significantly on conventional Client/Server models, providing a more flexible architecture with a simple and decoupled structure. DDS enables low latency peer-to-peer communications and dynamic discovery, eliminating single-points of failure and boosting determinism for time sensitive IIoT applications.

- Intuitive modelling and programming
- Real-time (time deterministic) communications
- Reliable, scalable solution





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Rotary Machine Condition Monitoring



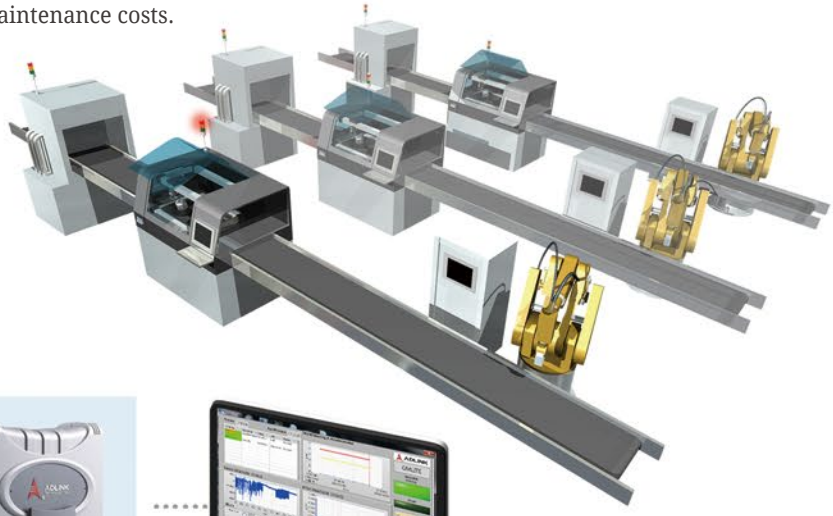
Industrial machinery is subject to nearly constant shock and vibration, creating fatigue and wear on materials and components. Imprecision and eventually system failure can result. Forecasting potential problems to implement preventive measures and maintenance or equipment replacement is critical to sustain performance and avoid downtime and costly damage. Conventionally, data acquisition modules collect data from sensors on individual machines. Based on the data, portable vibration detectors check for potential problem machines one by one, a time-consuming and labor-intensive practice, with unavoidable errors and slow reaction times.

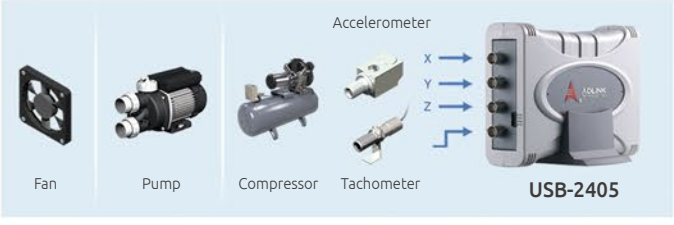
Rotary Machine Condition Monitoring Starter Kit

the starter kit is an all-in-one package providing a cost-effective solution for 24/7 online monitoring and failure prediction. The kit includes a 24-bit 4CH USB DSA, a Phoenix GM Lite Microsoft® Windows-based machine condition monitoring utility license, and a PCB 603C01 accelerometer with 10 ft. connecting cable and magnetic mount. The kit benefits users by preventing hazardous malfunction and reducing maintenance costs.

Customer Benefits

- Eliminate failure-related downtime
- Prevent hazardous malfunction
- Reduce excess maintenance costs





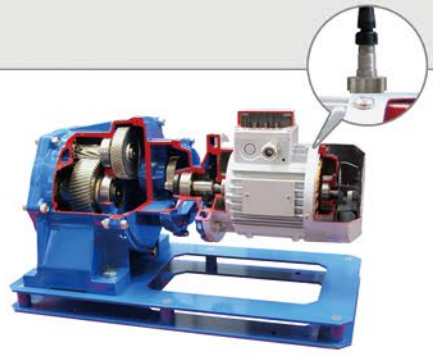
Phoenix GM Lite

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Start Projects Anywhere

ADLINK USB-2405 is easy to use for microphone and accelerometer measurement with compelling features including built-in IEPE 2mA excitation current source on each channel without additional signal conditioning, and anti-aliasing filters enable suppressing out-of-band noise. In addition, the USB-2405's USB bus power makes it perfect for portable field measurement when used with laptop.





Integral Magnetic Accelerometer Mount

The Accelerometer provides frequencies from 0.5 to 10kHz and a maximum amplitude of 50G. Perfect for rotating machinery condition monitoring, the accelerometer attaches magnetically, allowing easy adjustment of location to any test point, avoiding costs and effort of non-returnable tapping meters.



USB-2405

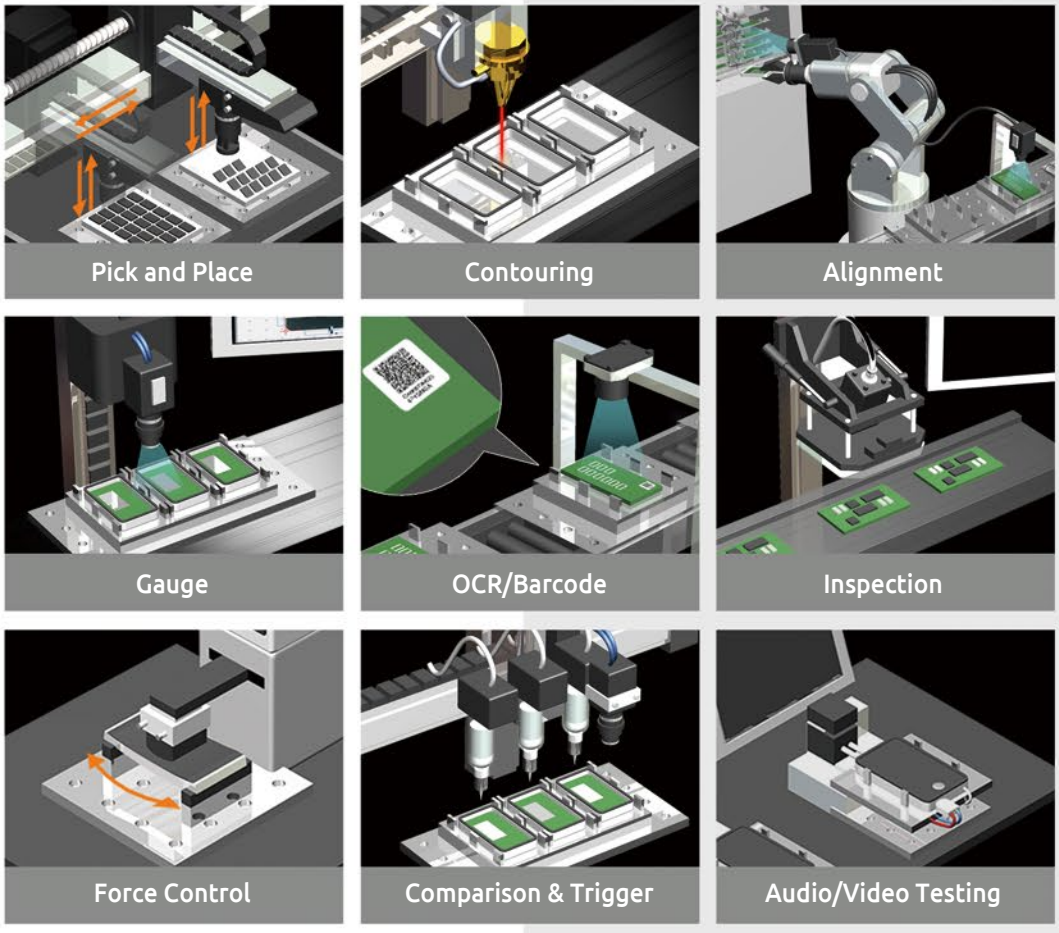


Efficient, Easy Machine Condition Monitoring Application

- 4CH simultaneous sampling at pre-defined intervals (min. 60 seconds)
- Automatic OA (overall) calculation of displacement, velocity, and acceleration
- Real-time display of acceleration waveform and FFT
- Threshold settings for conditions user-defined or by default with ISO 10816 machinery vibration standards
- Trend display and report generation
- Efficient raw data storage:
  - Below alarm level: recording OA only
  - Exceeding alarm level: recording raw data for further analysis

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Maximizing Success for Mobile Device Production



Empowering Applications with Powerful Functions

With the explosive popularity of mobile device use, supply chain deployment supporting highly efficient manufacturing of quality mobile products is being increasingly recognized as a critical factor in market dominance.

Accordingly, it has become more and more important for providers to introduce automated systems and quality assurance solutions across their production procedures, from material feeding, component production and functional testing, assembly, final product quality assurance, and inspection to shipping, to minimize defect rates while boosting quality and throughput. Intelligent precision manufacturing can easily be the deciding advantage in guaranteeing success and competitiveness for mobile device manufacturers.

The complex manufacturing procedures for mobile devices, from an automation perspective, can be organized into functional categories such as Pick & Place, Contouring, Alignment, Force Control, Inspection, and others.

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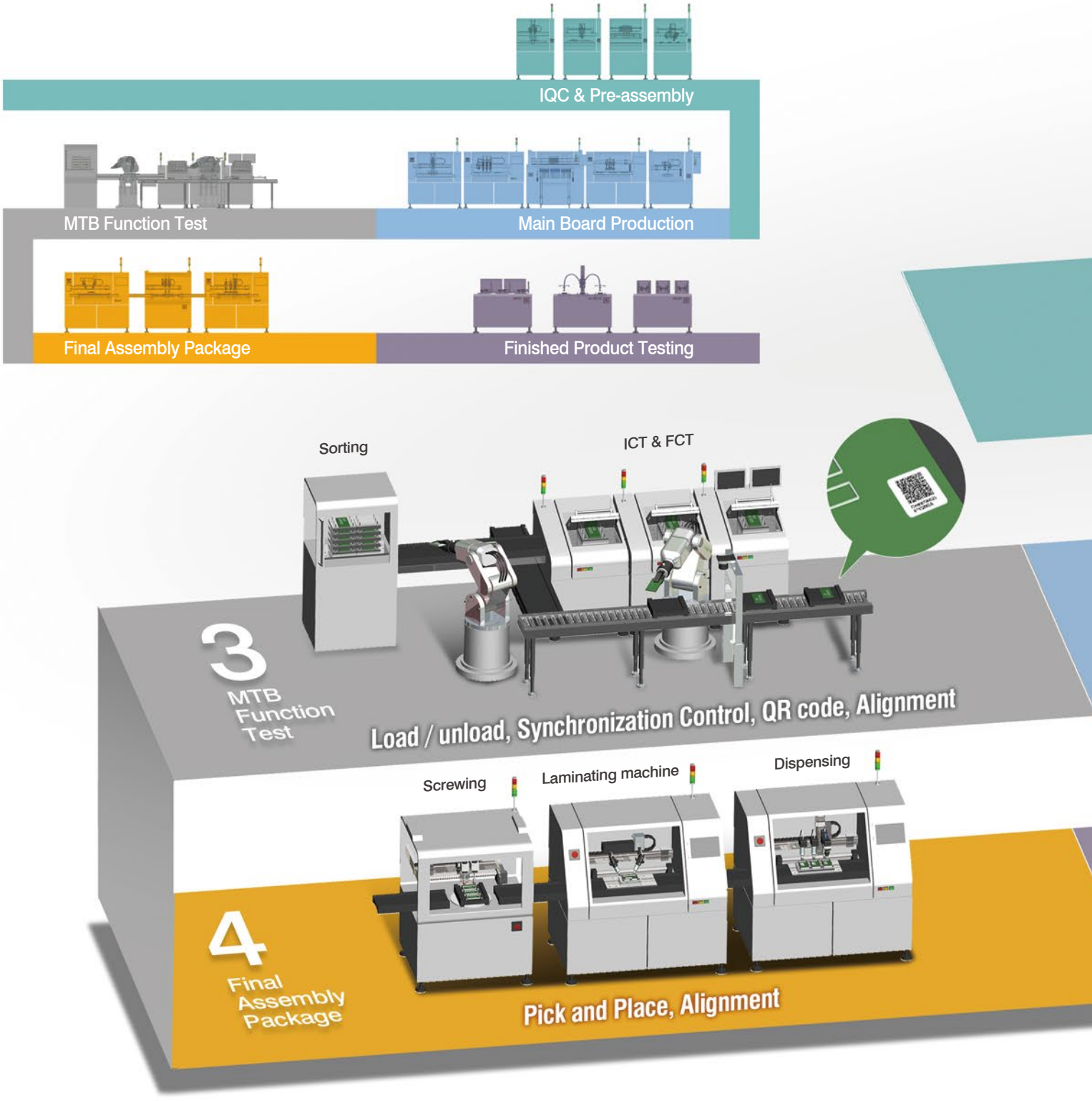


As an example, an automated dispenser unit can incorporate such functions as Position Comparison & Trigger and Contouring & Alignment, and, in the presence of automated function testing, Pick & Place as well, to enable robotic loading of workpieces onto the test equipment and Force Control to provide mobilization in lieu of manual function, achieving more consistent and precise test results.

Thus, if highly efficient and fully compatible solutions delivering such functionality are available to mobile manufacturers, system integrators will be able to effect customized organization of the solutions for their specific variety of equipment and applications, translating into quick and flexible satisfaction of production line requirements and timely support of product launches, guaranteeing vertical market success.

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Mobile Device Manufacturing Solutions



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EtherCAT Solution



ADLINK's new-generation EtherCAT solution integrates hardware and software elements to enable fast, high performance industrial automation applications with many ready-to-use features, speeding development, deployment, and expansion of Industrial IoT-based modern smart factories.

EtherCAT®

APS Function Library Support Simplifies the Upgrade to EtherCAT Based Motion Control

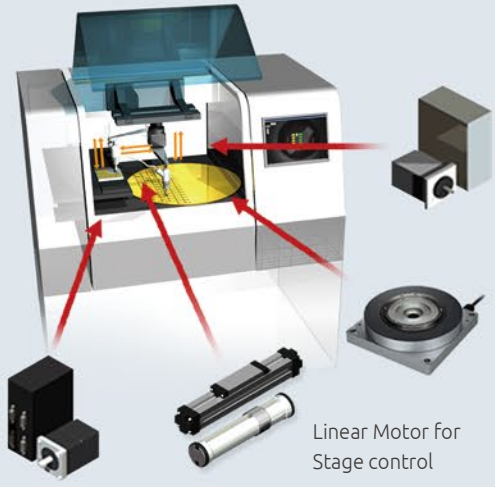
APS Function Library support allows existing motion control users to upgrade to EtherCAT-based motion control without complicated program modifications or application redevelopment.

User Application / Middle Software			MotionCreatorPro 2 / Other ADLINK Utility
ADE	C#/VB.NET/VC++ etc.	Third-party Runtime IDE (SoftPLC, etc)	
Libraries	APS Function Library in DLL / static LIB Format	Previous Motion Function Library	
Driver	OS and Hardware Based on Device Driver		
Operating System	Windows® 7/10 Windows® Embedded	Linux 32-bit	RTX on Windows®
Hardware	ADLINK Motion and Distributed I/O Products		

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Reduced Total Cost of Ownership

ADLINK's EtherCAT solution reduces costs up to 70% on every Single Axis over non-EtherCAT motion control. High flexibility for multi-axis motion control systems on both EtherCAT & non-EtherCAT motors, eliminates the need to discard old equipment, reducing TCO across the entire motion control system.



Stepper Motor for Rapid movement

DD Motor for Rotary control

Servo Motor for Loader/Unloader control

Linear Motor for Stage control



Synchronization Improves Productivity

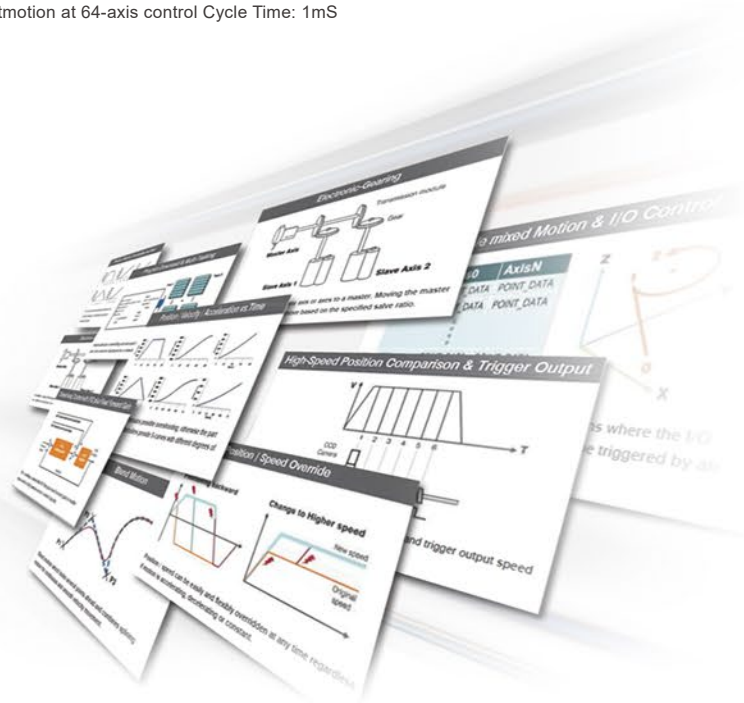
ADLINK EtherCAT provides high motion synchronization capability ≤1μS with performance of 16-axis linear interpolation 20 to 200 times that of conventional motion controllers, maximizing throughput.

*** Test Condition:**

ADLINK EtherCAT PCIe motion card with ADLINK Softmotion at 64-axis control Cycle Time: 1mS

Softmotion and APIs Speed Application Development

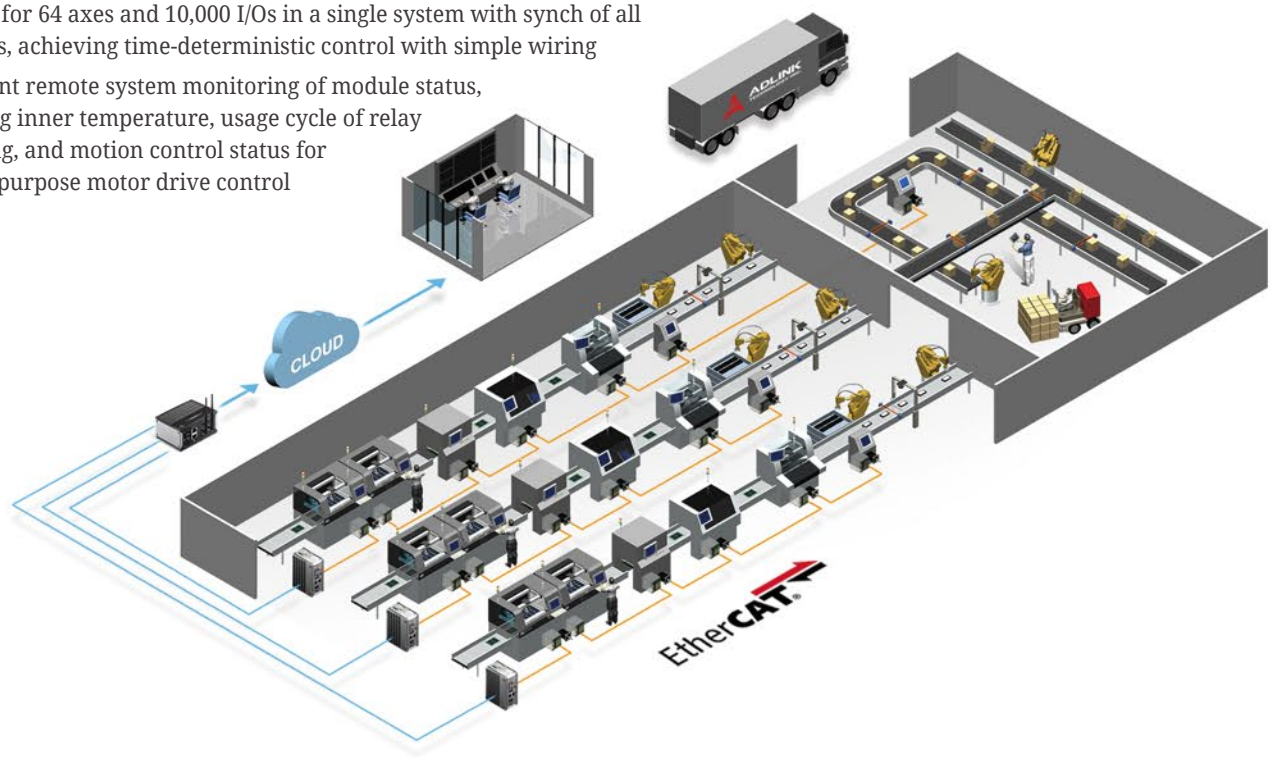
ADLINK Softmotion provides dependable motion control based on an efficient algorithmic kernel, featuring basic motion functions as well as variant vertical functionality for AOI, laser cutting, semiconductor management, and even robotic control. High precision and speed, together with enhanced synchronous motion control, equip ADLINK Softmotion player to help reduce operational complexity and development period for a wide variety of industrial applications.



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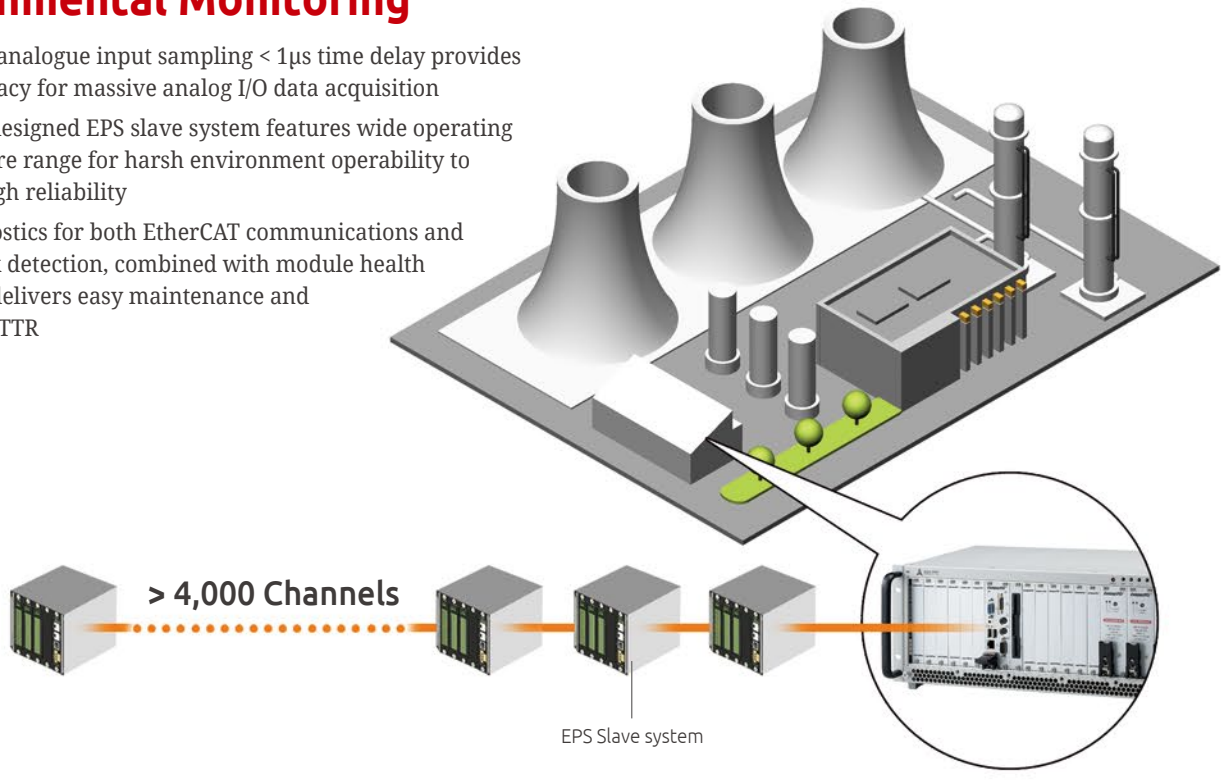
Smart Factory based on ADLINK's EtherCAT Solution

- Up to 70% cost reduction on every Single Axis from non-EtherCAT motion control
- Network update time for 1000 I/Os only 30μs, including I/O cycle time
- Support for 64 axes and 10,000 I/Os in a single system with synch of all elements, achieving time-deterministic control with simple wiring
- Intelligent remote system monitoring of module status, including inner temperature, usage cycle of relay switching, and motion control status for general purpose motor drive control



Environmental Monitoring

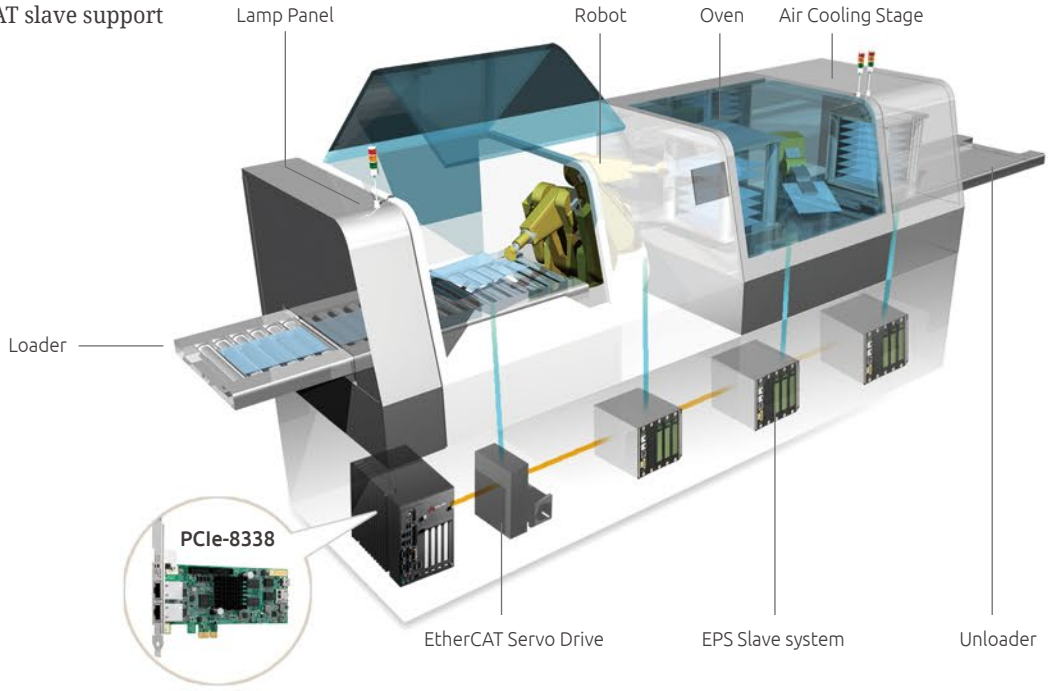
- High-sync analogue input sampling < 1μs time delay provides high accuracy for massive analog I/O data acquisition
- Ruggedly designed EPS slave system features wide operating temperature range for harsh environment operability to provide high reliability
- Self-diagnostics for both EtherCAT communications and wire-break detection, combined with module health detection delivers easy maintenance and reduced MTTR



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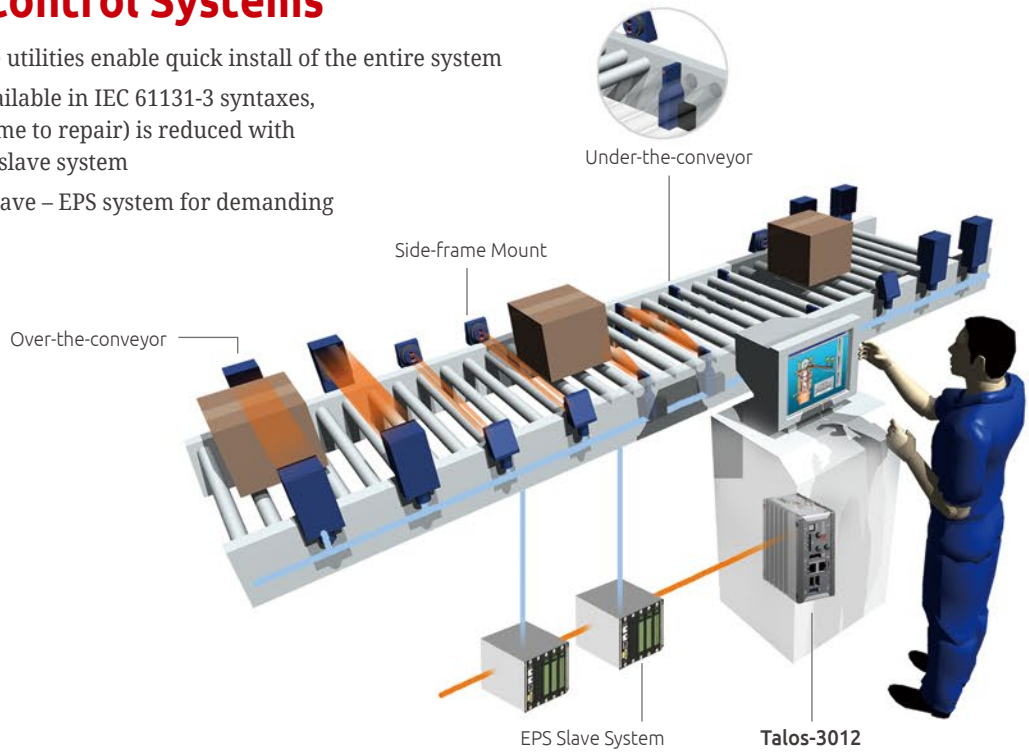
Motion & I/O Control for Machine Automation

- Throughput enhanced by 20-30% over legacy non-EtherCAT solution
  Expandability for motion and I/O while maintaining high synchronization
- Time-deterministic synchronous control for a wide variety of automation applications
- Wide 3rd party EtherCAT slave support



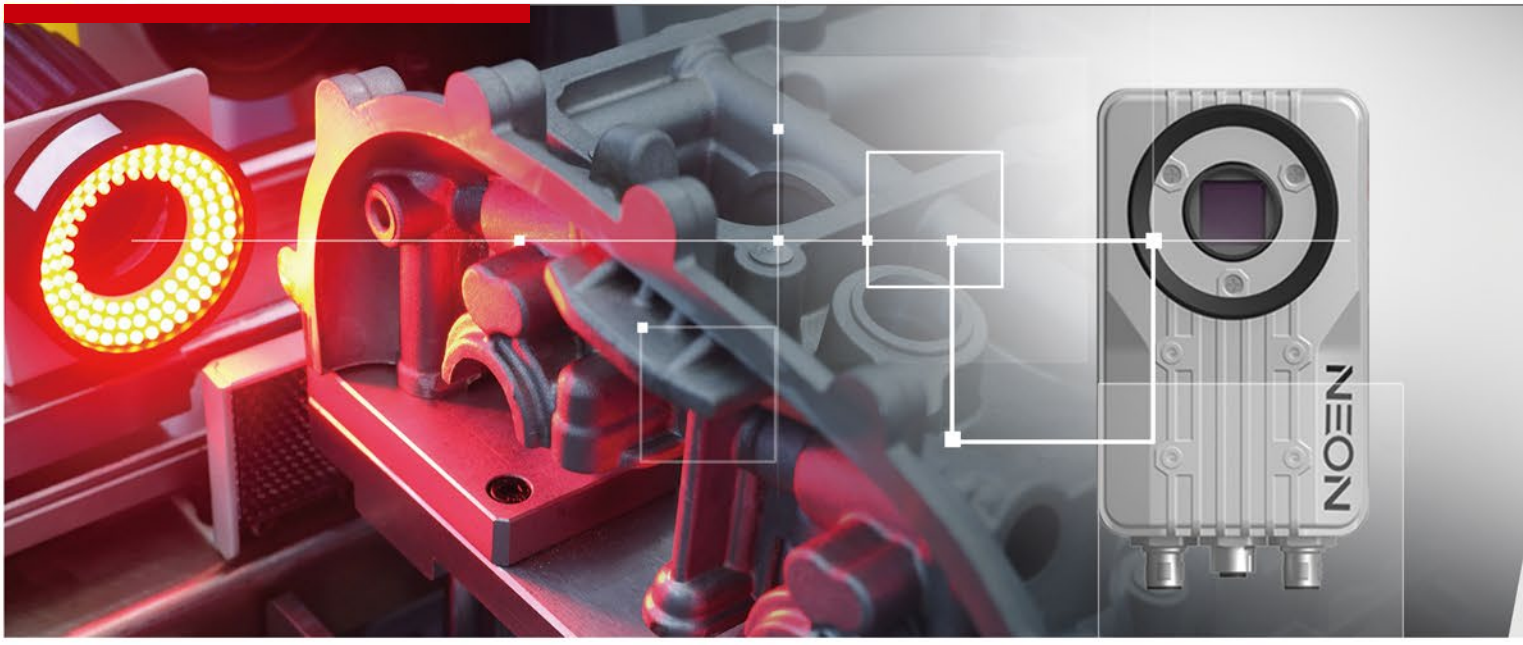
Conveyor Control Systems

- ADLINK easy-to-use utilities enable quick install of the entire system
- Programming is available in IEC 61131-3 syntaxes, and MTTR (mean time to repair) is reduced with hot-swappable EPS slave system
- Rugged EtherCAT Slave – EPS system for demanding environments

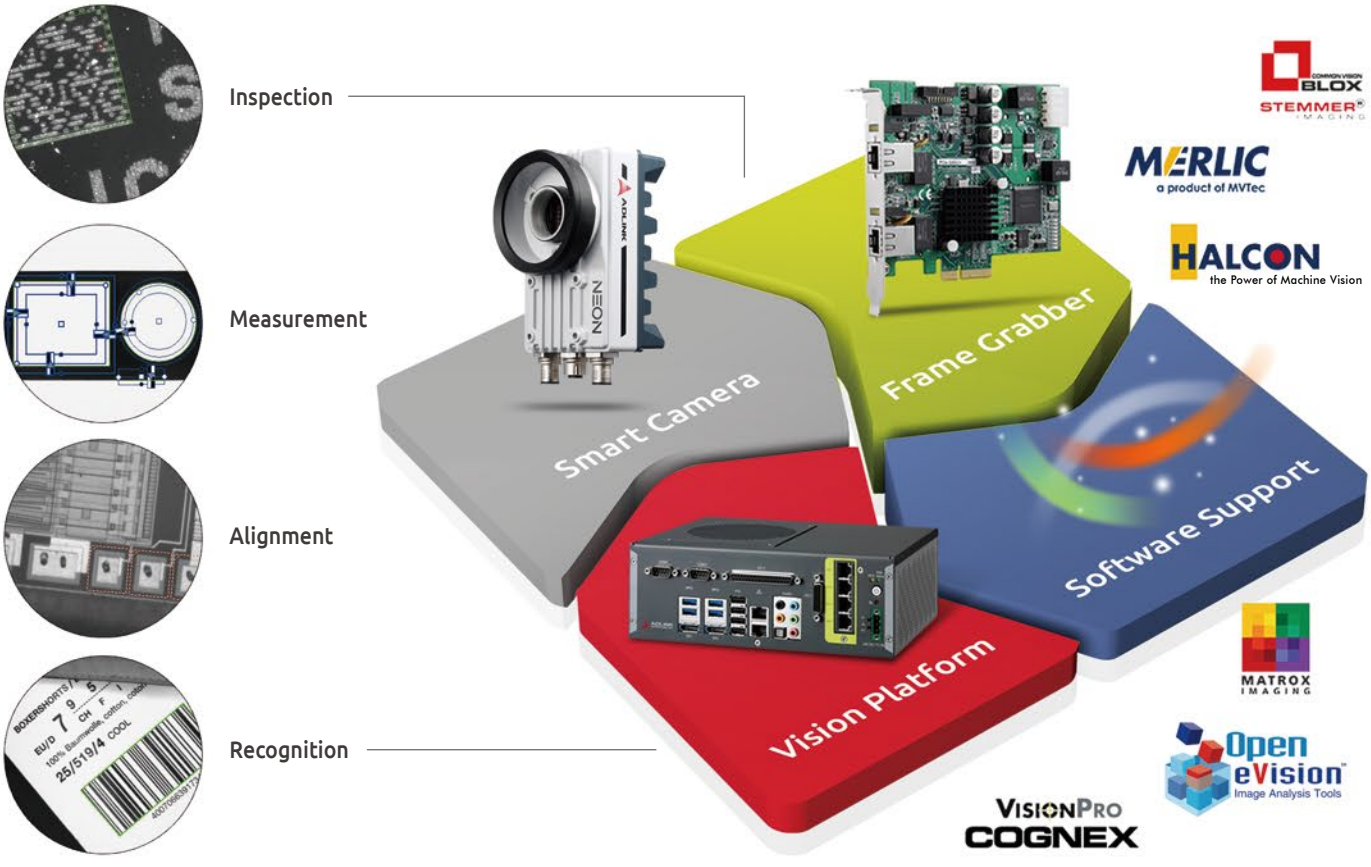


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Machine Vision Solution



ADLINK is dedicated to providing reliable, top quality products for industrial I/O control, motion control, digital imaging, data acquisition, and modular instrument applications. Our comprehensive portfolio of measurement and automation products, application ready platforms, and easy-to-use software packages, with integrated value-added service, continually meet and exceed customer requirements for industrial automation systems, machine vision systems, and automated test and measurement equipment.



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New Generation x86 Quad-Core Smart Camera

ADLINK's new generation x86 NEON Series features 4MP 60fps global shutter sensor and the Intel® Atom™ quad core 1.91 GHz processor, featuring minimal footprint and rugged IP67-rated construction. The quad core CPU increases computing power and FPGA coprocessors and GPU deliver advanced image processing, both beyond the capabilities of conventional smart cameras. Rich software support and API compatibility enable easy migration from original x86 platforms, eliminating software and development language burdens across the platform, reducing time to market.



ADLINK New Generation x86 Smart Camera

Embedded Vision Systems

Embedded vision systems, also referred to as compact vision systems, offer an alternative to Smart cameras and computer-based systems. The ADLINK EOS Series compact GigE vision system is equipped with 6th Generation Intel® Core™ i7/i5/i3 processors and four independent PoE (power over Ethernet) ports. FPGA-based function allows the EOS Series to provide programmable de-bounce filtering, on-the-fly triggering, and advanced encoder functions for real-time precision control with no CPU loading or requirement for additional devices. Advanced I/O deployment, wide operating temperature support and onboard license protection all enable the EOS Series to increase reliability while reducing TCO and TTM, making it the ideal solution for Food & Beverage, Pharmaceutical, & Medical Device applications requiring high computing power and time-deterministic operation in a durable package with minimal footprint.



Frame Grabber/Video Capture Cards

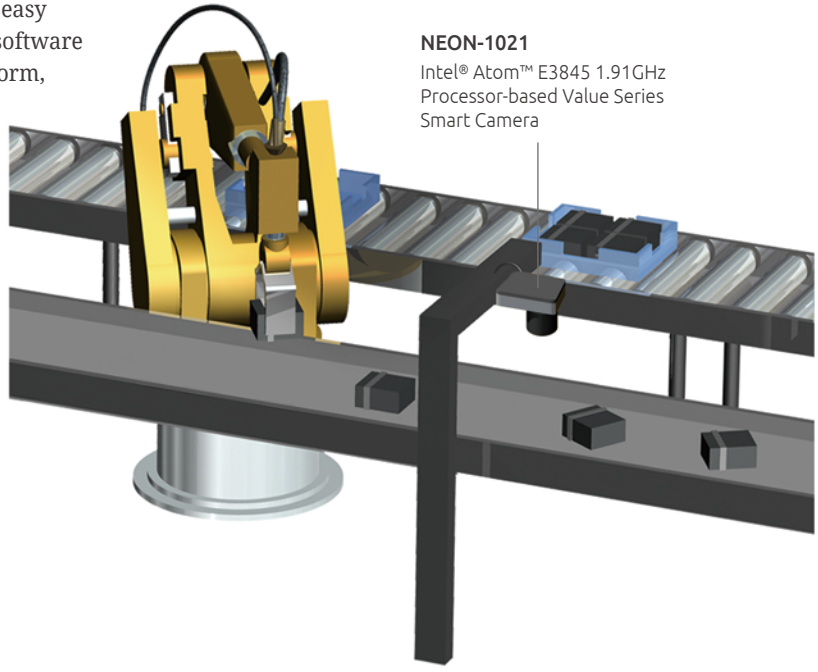
ADLINK provides full product line support, including analog, GigE Vision, IEEE 1394b, Camera Link, HDMI, 3G-SDI and CoaXPress, compatible with most popular cameras and software. ADLINK's carefully selected embedded components ensure long term availability, and frame grabber/video capture cards highly integrate with ADLINK I/O cards and embedded computing platforms to deliver high reliability and fast development.



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Vision Guidance Robotics

- With powerful quad core computing and FPGA image pre-processing, the NEON series can process multiple complex inspection tasks simultaneously
- The quad core CPU increases computing power and FPGA coprocessors and GPU deliver advanced image processing, both beyond the capabilities of conventional smart cameras.
- Rich software support and API compatibility enable easy migration from original x86 platforms, eliminating software and development language burdens across the platform, reducing time to market.

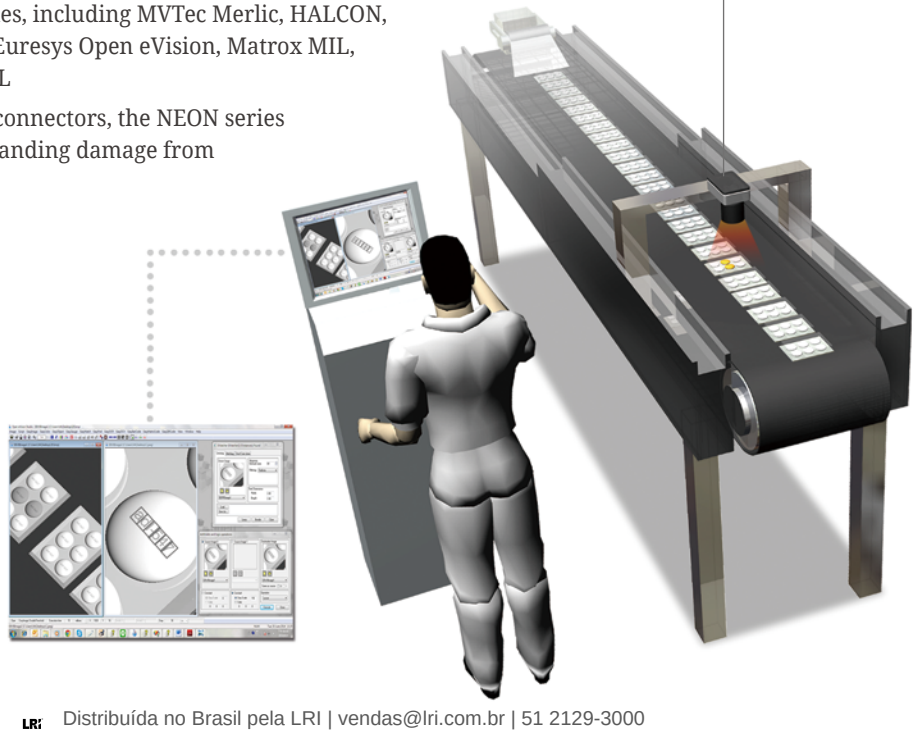


NEON-1021
Intel® Atom™ E3845 1.91GHz Processor-based Value Series Smart Camera

High Speed Pharmaceutical Inspection

- 4MP 60fps global shutter sensor and the Intel® Atom™ quad core 1.9 GHz processor, with minimal footprint and rugged IP67-rated construction.
- Easy to deploy and development by streamlined integration and maximization of all leading machine vision utilities, including MVTec Merlic, HALCON, Stemmer CVB, Congex Vision Pro, Euresys Open eVision, Matrox MIL, Teledyne Dalsa Sherlock and GenTL
- With IP67-rated housing and M12 connectors, the NEON series resists harsh environments, withstanding damage from moisture and contaminants.

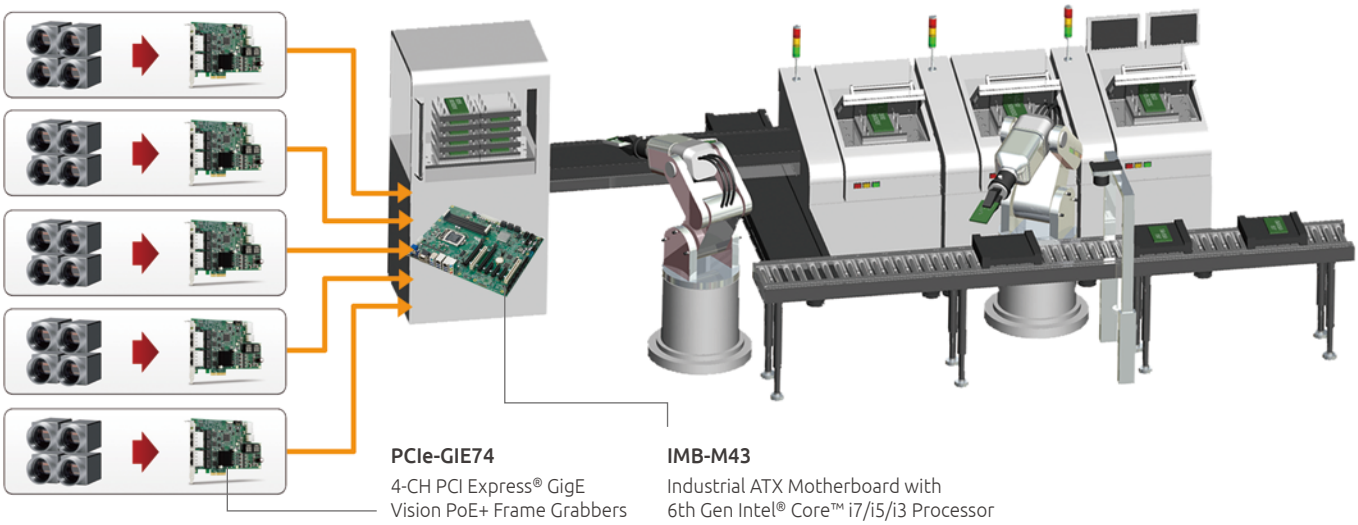
NEON-1040
Intel® Atom™ Quad-Core Processor E3845 1.9 GHz-based smart camera



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Smartphone Manufacturing Facility and Electronic Component Foundry

- Multi-slot IMB-M43 motherboard with five PCIe-GIE74 frame grabbers can accommodate connection of up to 20 cameras to a single host computer, saved the equipment and licensing fees cost for multi-camera required application
- Operating temperatures from 0˚C to +70˚C supports integration with fanless computer providing multi-card non-drop frame capture under extreme environmental conditions
- Comprehensive PoE Protection Secures Assets



PCIe-GIE74
4-CH PCI Express® GigE Vision PoE+ Frame Grabbers

IMB-M43
Industrial ATX Motherboard with 6th Gen Intel® Core™ i7/i5/i3 Processor

Food and Beverage Inspection

- On-the-Fly trigger suitable for sync cameras and strobes
- Encoder easily integrates with conveyor belt
- One side I/O and compact size for conserved space
- Compact size with wide-range temperature support
- Short protection DO avoids device damage



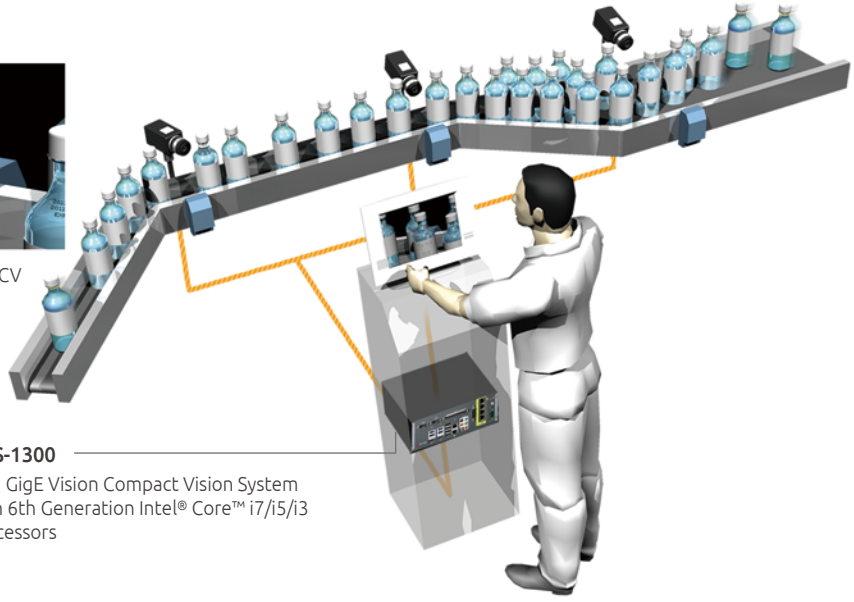
Defect Inspection



Barcode Inspection



OCR / OCV



EOS-1300
4CH GigE Vision Compact Vision System with 6th Generation Intel® Core™ i7/i5/i3 Processors

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Audio & Vibration Testing Solutions



Based on various bus standards, ADLINK's Dynamic Signal Acquisition (DSA) modules are specifically designed for audio, noise, and vibration measurement applications. Featuring up to 432 kS/s sampling , 24-bit resolution, and IEPE signal conditioning, the series delivers highly accurate signal acquisition and easy connection to microphone or acceleration sensor for component testing. ADLINK further provides a wealth of industrial-grade computer and PXI platforms enabling customers to choose the products most suitable to their own audio and vibration applications, speeding system development.

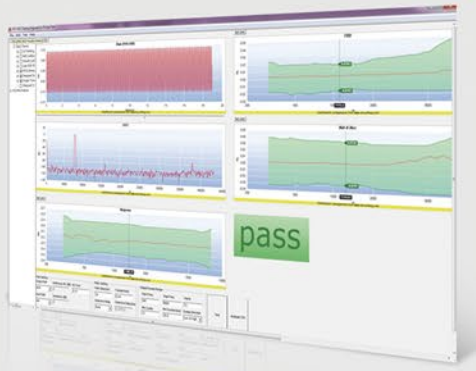


Complete Sound & Vibration Systems for PXI, PCI, and USB

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Software Support Simplifies Program Development

ADLINK's dynamic signal acquisition series offers rich SDKs such as LabVIEW™, MATLAB® and other third-party tools to assist users in quickly designing programs and applications, shrinking the verification cycle and accelerating time to market. ADLINK's proprietary audio analysis utility speedily completes audio testing of headphone jacks, microphones, speakers and other electro-acoustic components with no need for programming.



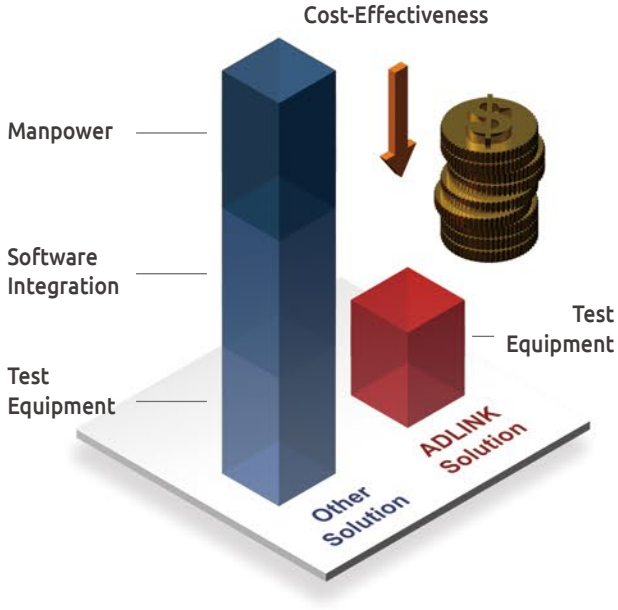
Superior Performance for a Variety of Audio Testing Needs

ADLINK's DSA modules with high 24-bit resolution and sampling rates can acquire detailed measurement distinguishing subtle audio changes, while managing heavy bass, stereo, HiFi and other high-end signals (noise Level < 3μVrms and THD+N < 100dB). In addition, the modules are suitable for mechanical equipment monitoring applications in harsh environments, enabling accurate monitoring and measurement of activity such as, for example, power plant turbines to detect operational anomalies.

	Flatness	Ground Noise	Dynamic Range	THD	Crosstalk	Performance
Sound Card	±0.3	-70 to -85	70 to 85	-65 to -85	-70 to -85	Low
High-end Sound Card	±0.04 to ±0.08	-85 to -95	85 to 95	-85 to -95	-85 to -95	Medium
ADLINK PCI-9527	±0.03	-117	100	-100	-100	High

Automated Testing Reduces Total Cost of Ownership

Benefiting from ADLINK's high-performance DSA modules, users can build an automated audio and vibration test system and save the cost of purchasing expensive equipment while meeting the demands of audio/ vibration testing. Software support helps upgrade automated detection tasks with no need for development of testing programs. Complete hardware and software solutions improve testing quality and reduce testing time and cost.



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High-quality Hi-Fi Audio Product Testing Solution

- At 30% the price of professional audio analysis, significantly reduces production testing costs
- ADLINK's Audio Analyzer utility enables efficient automated audio testing without any need for programming
- High-resolution dynamic signal acquisition with less than -100dB dynamic range thoroughly fulfils key indicators in HiFi-enabled mobile phone testing, guaranteeing production quality

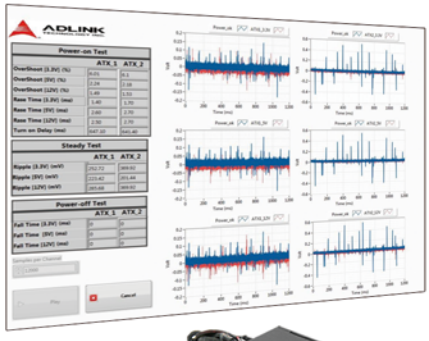


Audio Analyzer Utility

PCI-9527
24-Bit High-Resolution Dynamic Signal Acquisition and Generation Module

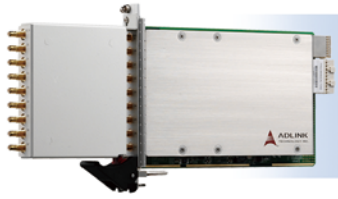
High-Speed Digitizer for Power Supply Unit Testing

- Built in x15/x50 attenuator enables high density simultaneous data streaming across 8 channels, with high input range of ±100V
- High-density 100MS/s 14-bit sampling capability easily supports sampling of complicated QC test parameters, including rise time, overshoot, and turnon delay
- High density 8-channel analog inputs easily measure multiple units simultaneously, significantly reducing testing time









PSU Vendor QC Testing Parameters:

- Rise Time
- Overshoot
- Turn-On Delay
- Ripple Noise
- Fall Time

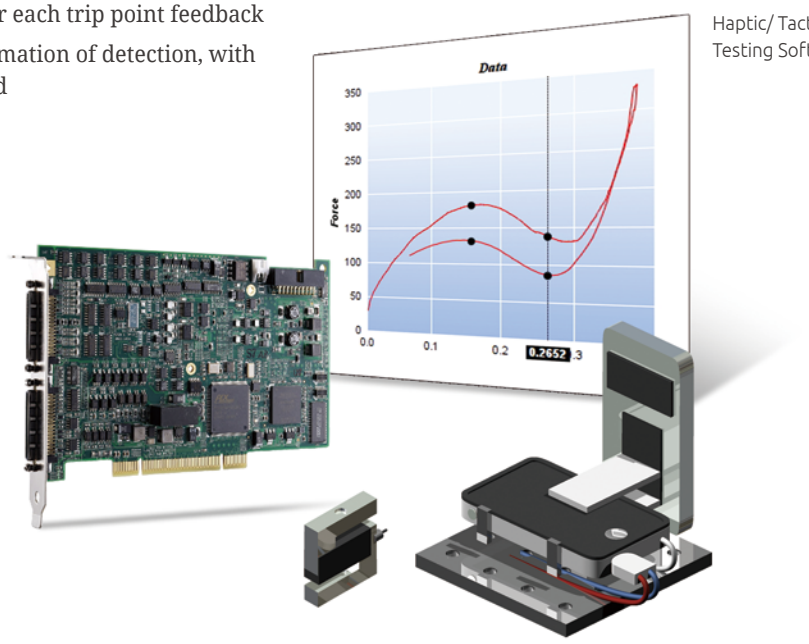
Power Supply

PXIe-9848 8-CH 14-Bit 100 MS/s High-Speed Digitizer

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Haptic/ Tactile Keypad Testing

- (Load-Stroke) Haptic/tactile keypad testing for mobile/notebook/car navigation and pushbutton switches
- PCI-9524 with 24-bit resolution and up to 20,000 count resolution provides accurate measurement of small signal changes
- 2.5V / 10V adjustable drive voltage directly drives the load cell
- Encoder/LoadCell binding function directly displays buttons pressed throughout process, with pressure point for each trip point feedback
- Flexible use of the library allows easy automation of detection, with measurement completed within one second



Haptic/ Tactile Keypad Testing Software

PCI-9524
24-Bit Precision Load Cell Input Card

Intelligent Noise and Vibration Detection

- Complete hardware and software solutions shorten development time for new projects and improve testing efficiency
- Accurate and consistent test results for high-fidelity data acquisition, facilitating establishment of production history
- Wide variety of test items can be automatically deployed to more quickly launch testing schedules, more thoroughly serving the needs of production line automation and improving throughput
- Neural network and large data-based analysis and learning, including acquisition of user experience and logic significantly improve testing accuracy



Dynagator Software

PXIe-9529
8-CH 24-Bit High-Resolution Dynamic Signal Acquisition Module

PCI-9527
24-Bit High-Resolution Dynamic Signal Acquisition and Generation Module

USB-2405
4-CH 24-Bit 128kS/s Dynamic Signal Acquisition USB 2.0 Module

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Motion Control and EtherCAT Selection Guide

Pulse Train Motion Control

		PCIe-8158	PCIe-8154	PCI-8164	PCI-8102
					
Number of Axes		8	4	4	2
Support Motor		servo/ stepper	servo/ stepper	servo/ stepper	servo/ stepper
Encoder Input Frequency (Max)		6.55 MHz @ 1M, under 4 x AB phase	6.55 MHz @ 1M, under 4 x AB phase	6.55 MHz @ 1M, under 4 x AB phase	6.55 MHz @ 1M, under 4 x AB phase
Pulse Output Rate (Max)		6.55 Mpps	6.55 Mpps	6.55 Mpps	6.55 Mpps
Motion Features	*Linear Interpolation*	Any 2 to 4 of 4 axes	Any 2 to 4 of 4 axes	Any 2 to 4 of 4 axes	2 axes
	Circular Interpolation	Any 2 axes	Any 2 axes	Any 2 axes	2 axes
	Helical Interpolation	√	√	-	-
	Home Return Mode	13 (including auto homing)	13 (including auto homing)	13 (including auto homing)	13 (including auto homing)
	Continuous Contouring	by 3 command buffer	by 3 command buffer	by 3 command buffer	by 3 command buffer
Motion Profile		T/S curve (Non-symmetric acceleration/deceleration settings are supported)			
Dedicated Motion I/O		±EL/ORG/SVON/INP/ALM/RDY for each axis			
DI/O Channels		24 DI / 24 DO	20 DI / 20 DO	6 TTL DO	16 DI / 16 DO
Card Index Switch		√ (0 to 15)	√ (0 to 15)	-	√ (0 to 15)
Hardware Emergnecy Input		√	√	-	√
Advanced Motion Function	*Position Compare & Triggering*	√(up to 1 MHz)	√(up to 1 MHz)	√ (up to 15 kHz)	√ (up to 1 kHz by interrupt function)
	Backlash Compensation	√	√	√	√
	Simultanous Move	√	√	√	√
	Ring Counter Support	√	√	√	√

DSP-based Advanced Motion Control

		PCI-8254	PCI-8258	AMP-204C	AMP-208C
					
Number of Axes		4	8	4	8
Support Motor		servo/ stepper	servo/ stepper	servo/ stepper	servo/ stepper
Encoder Input Frequency (Max)		20 MHz under 4 x AB phase		20 MHz@1M,under 4 x AB phase	
Servo Update Rate		20 KHz		-	-
Trajectory Update Rate		1 KHz		1 KHz	
Pulse Output Rate (Max)		-	-	6.55 Mpps	6.55 Mpps
Motion Features	*Linear Interpolation*	Any 2 to 4 of 4 axes	Any 2 to 6 of 8 axes	Any 2 to 4 of 4 axes	Any 2 to 6 of 8 axes
	Circular Interpolation	Any 3 axes	Any 3 axes	Any 3 axes	Any 3 axes
	Helical Interpolation	√	√	√	√
	Home Return Mode	√	√	√	√
	Gearing	√	√	√	√
	Continuous Contouring	√	√	√	√
Motion Profile		User-defined		User-defined	
Dedicated Motion I/O		+/-EL/ORG/SVON/INP/ALM for each axis		+/-EL/ORG/SVON/INP/ALM for each axis	
AI Channels		4 (12 bit garuantee)	8 (12 bit garuantee)	-	-
DI/O Channels		20 DI / 20 DO	24 DI / 24 DO	20 DI / 20 DO	24 DI / 24 DO
Card ID		V (4-bit)	V (4-bit)	V (4-bit)	V (4-bit)
Program Download		8 tasks	8 tasks	-	-
Advanced Motion Function	*Position Compare & Triggering*	up to 1 MHz	up to 1 MHz	up to 1 MHz	up to 1 MHz
	PWM Control	2-CH	4-CH	2-CH	4-CH
	Simultanous Move	√	√	√	√
	E Gearing	√	√	√	√

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EtherCAT Master Controller





Model Name		Talos-3012
Processor		Intel® Atom™ Processor E3845 1.9 GHz
EtherCAT Cycle Time		250 µs (min.)
EtherCAT Motion		Up to 64 axes
EtherCAT I/O		Up to 10,000 points
Memory	RAM (Program & Data Memory)	2GB DDR3
	Retain Memory	Configurable on SD card
	Storage (Date Usage)	16GB SSD / SD Card
Field Bus Connectivity		1 for EtherCAT
Ethernet Connectivity		1 GbE
System Indicators		3 User-defined
Programming Environment		CoDeSys v3 (IEC-61131-3-Compliant)
Supply Voltage		9-32 VDC wide-range DC input
Environment Certificate		Vibration: 5 Grms, 5-500Hz Shock: 50G, Half Sine 11 ms duration EMC: EN 55011 class A
Operating Temperature		-20 ° C~60 ° C (-4 °F to 140 °F)
Dimension		120 (W) x 100 (D) x 55 (H) mm (4.68" 3.9" x 2.17")

Model Name	PCIe-8338
EtherCAT Cycle Time	1CH @ 250µs / 500µs / 1000µs / 2000µs
EtherCAT Motion	Up to 64 axes
EtherCAT I/O	Up to 10,000 Points
Motion I/O Interface Signals	
Emergency Stop In	1CH
Isolated I/O Signals	
Digital Input	4CH (2CH configured as Pulsar Input)
Pulsar Input Mode	CW/CCW; 1x/2x/4x AB Phases
Pulsar Input Frequency	Up to 1MHz
Digital Input Voltage	24Vdc (typ.) / 5Vdc for pulsar connection
Digital Input Type	Sourcing type
Digital Output	4CH, Isolated
Digital Output Voltage	24V (typ.)
Digital Output Type	90mA, NPN sinking type
General Specification	
Operating Temp	0˚C to +60˚C (32˚F to 140˚F)
Humidity	5% to 95%, non-condensing
Environmental Specification	
Safety compliance	CE/FCC, RoHS

EtherCAT Slave System and Modules





EPS-7002



EPS-1132/ 2032/ 2132/ 2308/ 3216/ 3032/ 7002



EPS-3504/ 4008

Model Name	EPS-9905 with EPS-6000
Installed Slots	5 (max.)
Protection Type	IP31
Hot Swap	Yes
Operating Temp.	-20~60Â° C
Dimension (mm)	130 (L) x 110 (W) x 105 (H)
Weight (estimated)	< 1,000 gram
Power Consumption	6.6W
Supply Voltage	24Vdc (,Â±10%)
Environment Certificate	Vibration: 5 Grms, 5-500Hz Shock: 50G, Half Sine 11 ms duration EMC: EN 55011 class A

Model Name	EPS-1132	EPS-2032	EPS-2132
I/O Type	Digital Input	Digital Output	Digital Output
Channel	32	32	32
Hot Swap	Yes		
Input / Output Type	Sinking	Sourcing	Sinking
Input Range (by Voltag e/Current)	IEC 61131-2 Type 1/3, 2.3mA	–	–
Sampling Rate	<1ms	4KHz	4KHz
Resolution	–	–	–
Output Current Capacity	–	300mA / ch	300mA / ch
Connector Type	Phoenix Contact DFMC		

Model Name	EPS-2308	EPS-3216	EPS-3032	EPS-3504	EPS-4008	EPS-7002
I/O Type	Relay Output	Analog Input	Analog Input	Thermal Input	Analog Output	Motion Control
Channel	8	16	32	4	8	2
Hot Swap	Yes	Yes	Yes	Yes	Yes	Yes
Input / Output Type	Relay	Differential	Single-ended /Differentia	RTD	Single-ended	Pulse-Train
Input Range (by Voltage/Current)	–	0~20mA	+/- 10V	RTD (PT100, 500, 1000)	± 10V	PUS/DIR: 4MHz ENC: 20MHz
Sampling Rate	5ms	100KHz	100KHz	5-20Hz	100KHz	–
Resolution	–	16 bit	16 bit	24bit	16bit	32 bit
Output Current Capacity	AC: 125V @ 0.5A DC: 30V @ 2A	–	–	–	5mA	–
Connector Type	Phoenix Contact DFMC					SCSI VHDCI 68p

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Why ADLINK?

- *Full product line support, including analog, GigE Vision, IEEE 1394b, Camera Link, HDMI, 3G-SDI and CoaXPress*
- *Compatible with most popular cameras and software*
- *Carefully selected embedded components ensure long term availability*
- *Highly integrated with ADLINK I/O cards and embedded computing platforms*



Vision Interface

Note: Driver installation is required for frame grabbers or cameras.

	CoaXPress	3G-SDI	HDMI	GigE Vision	IEEE 1394b	Camera Link	Analog
Max. Cable length (Meter)	Up to 100	100	5	100	4.5	Up to 15M (Depending on the Bandwidth)	100
Bandwidth (Mbps per Channel)	6500-25000	3000	216-2880	1000	800	2400-4800	216
Host CPU Loading	-	-	-	>5%	<5%	-	-
Realtime Signaling	v	v	-	-	-	v	v
Power over cable	13 (PoCXP)	-	-	13 (PoE only)	45	45 (PoCL)	-
Plug & Play *	v	v	v	v	v	-	v
Real time trigger	v	-	-	-	-	v	-
Standards	CoaXPress standard	SMPTE	DVI 1.0	AIA GigE Vision	Common IEEE 1394 Trade Association DCAM Standard	AIA Camera Link	-

ADLINK Machine Vision Software

ADLINK's powerful application tools, ViewCreatorPro™ and CamCreator™, provide simple and effective setup, configuration, testing, and debugging for vision systems. These utilities assist developers in evaluating initial test functions with ADLINK frame grabbers. Both ViewCreatorPro™ and CamCreator™ support 32/64-bit Windows® 8/7/XP operating systems. In addition, CamCreator™ provides continuous grab, pixel values, zoom in/out and console functionality to expedite a Camera Link installation.



Products	OS Information		Software Compatibility	Software Recommendations	
	Windows® Note(1)	Linux® Note(2)	LabVIEW™ Note(3)	ViewCreatorPro™	CamCreator™
PCIe-GIE74/PCIe-GIE72	v	v			
PCIe-GIE64+	v	v			
PCIe-FIW64	v				
PCIe-FIW62	v				
PCIe-CPL64	v				v
PCIe-HDV62	v		v	v	
PCIe-HDV62A	v		v	v	
PCIe-RTV24/PCI-RTV24	v		v	v	
PCIe-2602	v			v	
PCIe-HDV72	v		v	v	

Note: (1) Windows Support for Windows® 8/7/XP x64/x86 (2) Please visit Intel's website for LAN chip drivers (3) Compatible with LabVIEW™ 2009 and above

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Frame Grabber Selection Guide

	PCIe-GIE74/PCIe-GIE72	PCIe-GIE64+	PCIe-HDV72	PCIe/PXIe-HDV62A
ADLINK Frame Grabber				
Standard	Power over Ethernet	Power over Ethernet	HDMI	HDMI
Configuration	Gigabit Ethernet	Gigabit Ethernet	4K, UHD	Full HD
Connector	RJ45 x 4 / RJ45 x 2	RJ45 x 4	HDMI	DVI-I
Resolution	depends on camera specification	depends on camera specification	4096 x 2160P, 3840 x 2160P	1920 x 1080p
Interface	PCIe x4	PCIe x4	PCIe x4 (3.0)	PCIe x4
Max. Video Input	4 / 2	4	1	1
Max. Frame Rate	depends on camera specification	depends on camera specification	up to 60	60
Audio Input	-	-	√	√
TTL I/O	-	-	√	√
Area Scan Camera	V	√	√	√
Line Scan Camera	V	√	-	-
Interlaced Scan	V	√	√	√
Progressive Scan	V	√	√	√
Camera Tap	-	-	-	-
Pixel Depth	depends on camera specification	depends on camera specification	8, 10, 12-bit	8-bit, 10-bit
Max. Clock Frequency	-	-	-	-
On-board memory	-	-	2 GB	512 MB

	PCIe-2602	PCIe-CPL64	PCIe-FIW64/PCIe-FIW62	PCIe-RTV24/PCI-RTV24
ADLINK Frame Grabber				
Standard	SDI	PoCL (Power over Camera Link)	IEEE 1394b	Color: PAL/NTSC Monochrome: CCIR/EIA (RS-170)
Configuration	SDI	base, medium	-	-
Connector Interface	BNC x 2	MDR26	IEEE 1394b	BNC x 4
Resolution	1920 x 1080p	depends on camera specification	depends on camera specification	640 x 480 (NTSC/RS170), 768 x 576 (PAL/CCIR)
Interface Bus	PCIe x4	PCIe x4	PCIe x4 / PCIe x1	PCIe-RTV24: PCIe x1 PCI-RTV24: PCI
Max. Video Input	2	2	4 / 2	4 to 16*
Max. Frame Rate	60	depends on camera specification	depends on camera specification	30 fps / channel
Audio Input	SDI embedded	-	-	-
TTL I/O	√	√	√ (FIW64)	√
Area Scan Camera	√	√	√	√
Line Scan Camera	-	√	-	-
Interlaced Scan	√	√	√	√
Progressive Scan	√	√	√	-
Camera Tap	-	1-tap, 2-tap, 3-tap, 4-tap	-	1-tap (PCIe-RTV24)
Pixel Depth	8, 10, 12-bit	8-bit, 10-bit	depends on camera specification (FIW64) 8 to 10-bit (FIW62)	8-bit
Max. Clock Frequency	-	85 MHz	-	-
On-board memory	-	128 MB	-	-

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Smart Camera Selection Guide

		NEON-1021	NEON-1020	NEON-1040
Smart Camera		NEW 		
Processing & Memory				
Processor		Intel® Atom™ E3845 Processor, Quad Core @ 1.91 GHz		
Display		VGA output, max. 2048 x 1152 at 60 Hz		
RAM		4 GB DDR3L		
Storage		16 to 32 GB solid state drive		
Advanced Processing		LUT, shading correction, ROI, Muti-ROI, binning	ROI, LUT, shading correction	
Sensor				
Image Sensor		e2v EV76C570	CMOSIS CMV2000	CMOSIS CMV4000
Resolution		1600 x 1200	2048 x 1088	2048 x 2048
Sensor Size		1/1.8"	2/3"	1"
Format		Monochrome	Monochrome	Monochrome
Pixel Size		4.5	5.5	
Frame Rate (fps)		60	120	60
Shutter		Global		
Trigger Mode		External trigger, software trigger, free run		
I/O Interface				
Trigger Input		1x Opto-isolated trigger input		
Digital Output		4x sink type output, max sink 100mA sink voltage max 30VDC		
Digital Input		4x TTL level input		
PWM Lighting Control	*Drive Method*	Constant current 500mA		
	Applicable Light Units	24 VDC illuminators		
	Dimming Resolution	1000:1		
Ethernet		1 x GbE		
Serial Communication		1 x RS-232 (TX and RX only)		
USB		1 x USB 2.0		
Mechanical				
Dimensions		68.5mm W x 110mm D x 52.7 mm H / 2.70" W x 4.33" D x 2.08" H (68.5mm x 110mm x 42.7mm reduced size option)		
Lens mount C mount		C mount		
Connectors		1 x M12 8-pin (Female), 1xM12 17-pin (Male), 1x M12 12-pin (Male)		
Software Support				
Operation System		Windows 7, Windows Embedded Standard 7		
Software Compatibility		MVTec Merlic, HALCON, Stemmer CVB, Cognex Vision Pro, Euresys Open eVision, Matrox MIL, Teledyne Dalsa Sherlock		
Environmental & Electricalions				
Power Consumption		24 V_{DC} +/-10%, 13W (Typical)		
Operating Temperature		-20˚C to 50˚C (-4˚F to 122˚F)	Standard: -30˚C to 50˚C (-22˚F to 122˚F) Extended temperature option: 0˚ to 60 ˚C (32˚ F to 140˚ F) (w/ industrial SSD)	-30˚C to 50˚C (-22˚F to 122˚F)
Vibration		Operating, 5 Grms, 5-500 Hz, 3 axes		
Certification		IP67, CE, FCC Class A		

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Embedded Vision Systems Selection Guide

Embedded Vision Systems	EOS-1300	EOS-1200
	NEW 	
CPU	Intel® Core™i7-6700 / Intel® Core™ i5-6500 / Intel® Core™ i3-6100 / Intel® Celeron® G3900	Intel® Core™ i5-2510 3.1 GHz / Intel® Core™ i7-2710 3.0 GHz / Intel® Core™ i7-3610 3.3 GHz
Chipset	Intel® H110	Intel® QM67 Express chipsets
System Memory	Up to 32 GB DDR4 at 2133MHz	Up to 8 GB DDR3
Video	2 display ports with resolution up to 4096 x 2160	VGA+DVI-D output by DVI-I connector, up to QXGA (2048 x 1536) resolution
Audio	7.1 channel audio via 5 jacks and S/PDIF output	AC97, mic in/speaker out
Ethernet	2x GbE port	2x GbE port
USB	4x USB 2.0 and 4x USB 3.0 ports (internal 1x USB 2.0)	Four USB 2.0 ports, two USB 3.0 ports
COM Ports	1x RS-232/422/485 and 1x RS-232	Two software-programmable RS-232/422/485 (COM1 & COM2), two RS-232 (COM3 & COM4)
Keyboard/Mouse	USB type	PS/2 type mini-DIN connectors
Camera Interface	4CH Gigabit PoE IEEE 802.3af compliant, total max. power output 32W	4-CH Gigabit power over Ethernet IEEE 802.3af compliant, total max. power output 32 W
Digital I/O	12x isolated DI; 2x Encoder input; 16x isolated DO	16-CH isolated digital input and output 2x COS interrupt
Trigger I/O	4x Trigger I/O (Configurable)	None
Weight	3 kg(6.6 lbs)	3 kg (6.6 lbs)
Mounting	Wall and DIN rail mounting (optional)	Wall and DIN rail mounting (optional)
Power Supply	DC 24V, ATX mode	DC: 10 to 30 VDC, ATX mode
Operating Temp.	0˚C to +55˚C (32˚F to 131˚F)	0˚C to +55˚C (32˚F to 131˚F)
Humidity	0% to 90%	0% to 90%
Dimensions	232W x 180.8D x 82.8H mm (9.1 x 7.1 x 3.2 in)	230 (W) x 206 (D) x 82 (H) mm (9" x 8.3" x 3.2")
Power Consumption	Up to 165W	110 W (with 4 GB DDRAM and 4 GB CFAST)
Storage	1x 2.5" SATA interface	One CFAST slot, two 2.5" SATA interfaces
Random Vibration	Operating 0.5 Grms, 5-500 Hz, 3 axes w/ HDD	Operating, 5 Grms, 5-500 Hz, 3 axes (w/CFAST)
Safety Compliance	CE/FCC, UL, RoHS	CE/FCC, RoHS

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DAQ, DIO & DSA Selection Guide

PCI/ PCIe/ PXI/ USB Analog Input/ Output Cards

Analog Input				Analog Output				Digital I/O	Model Number
No. of Cannels	Sampling Rate (Max.)	Resolution		No. of Cannels	Update Rate (Max.)	Resolution	Waveform Generator	No. of Channels	
16-CH	250 kS/s	16-Bit		2-CH	1MS/S	16-Bit	YES	8 DI/4 DO	USB-1901
									USB-1902
									USB-1903
4-CH	2MS/s		Simultaneous Sampling						USB-1210
	2kS/s	24-Bit						4 DI/2 DO	USB-2401
	128 kS/s							2 GPIO	USB-2405
	2MS/S	14-Bit		2-CH	1MS/S	12-Bit	YES	24 DI/24 DO	DAQ/DAQe-2010, PXI-2010
	500kS/S	16-Bit							DAQ/DAQe-2005, PXI-2005
	250kS/S								DAQ/DAQe-2006, PXI-2006
96-CH	3MS/S	12-Bit							DAQ/DAQe-2208, PXI-2208
64-CH	500kS/S	16-Bit		2-CH	1MS/S	12-Bit	YES		DAQ/DAQe-2204, PXI-2204
	250kS/S								DAQ/DAQe-2205, PXI-2205
16-CH	250kS/S	16-Bit	Encoder Inputs		Static	16-Bit	YES	8 DI/4 DO	DAQ/DAQe-2206, PXI-2206
					1MS/S			16 DI/16 DO	PCI-9221
32-CH	500kS/S								PCI-9222
	250kS/S								PCI-9223
									PCI-9114 Series
16-CH	100kS/S	12-Bit						16 DI/ 16 DO	PCI-9113(3)
	250kS/S	16-Bit		2-CH	1MS/S	12-Bit	YES	24 DI/24 DO	DAQ/DAQe-2213
									DAQ/DAQe-2214
	100kS/S	12-Bit		1-CH	Static	12-Bit		16 DI/16 DO	PCI-9111HR(1)
				2-CH					PCI-9112
8-CH	400kS/S	14-Bit		4-CH	1MS/S		YES	24 DI/24 DO	DAQ/DAQe-2501, PXI-2501
4-CH				8-CH					DAQ/DAQe-2502, PXI-2502
				8-CH	Static	12-Bit		4 DI/4 DO Isolated	PCI-6308V/6308A(2)
						16-Bit		4 DI/4 DO Isolated	PCI/PCIe-6208V, PCI-6208A(2)
				16-CH					PCI/PCIe-6216V

Note: (1) HR: High gain
(2) PCI-6x08A: Current Output available
(3) Isolated analog input card



PCIe-9814 PXIe-9529

Digitizer					
Channels	Sampling Rate	Input Resolution	Onboard Memory	Digital Input	Module Name
8-CH	100 MS/s	14-Bit	512 MB	-	PXIe-9848/9848H
4-CH	40 MS/s	16-Bit		-	PCI-9846, PXI-9846
	20 MS/s			-	PCI-9826
		12-Bit	32 k samples	3-CH	PCI-9812
	10 MS/s	16-Bit	512 MB	-	PCI-9816, PXI-9816
	80 MS/s	16-Bit	1 GB	3-CH	PCIe-9834
		12-Bit			PCIe-9814
2-CH	200 MS/s	14-Bit	1 GB	-	PCIe-9852, PXIe-9852

Dynamic Signal Analyzer							
Analog Input			Analog Output			Digital IO	Module Name
Analog Input	Sampling Rate	AD Resolution	Voltage Output	Update Rate	DA Resolution	Digital IO	
4+4 (4-ch load cell inputs & 4-ch general purpose AD)	Up to 30 kS/s	24-Bit	2-CH	5 kS/s	16	8 DI, 8 DO (Isolated)	PCI-9524
2-CH	432 kS/s			216 kS/s	24	-	PCI-9527 PXI-9527
8-CH	192 kS/s		no AO	-	-	-	PCIe-9529 PXIe-9529

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PCI/ PCIe/ PXI/ USB Digital Input/ Output Cards

Digital Input			Digital Output			DIO Update	Tiemr/ Counter	Model Number
Type	Range	No. of Channels	No. of Cannels	Resolution	Driver Type	Update Rate(Max.)		
Isolated DIO	0-24 V Isolated	16-CH	16-CH	2-CH	Power MOSFET		2-CH/ 32-Bit	USB-7230
Relay DO		8-CH	8-CH	30 VDC, 2A 125VAC, 0.5A	Relay			USB-7250
High-Density Isolated DIO	0-28 V Isolated	128-CH						PCI-7443
		64-CH	64-CH	5-40V	Power MOSFET			PCI-7442
			128-CH					PCI-7444
Isolated DIO	0-24 V Isolated	64-CH						PCI-7433
		32-CH						PCI-7233
			32-CH	5-35V	Darlington			PCI/PCIe-7432
		16-CH	16-CH					PCI/LPCI/LPCIe-7230
	0-50 V Isolated	64-CH						PCI-7433HIR(2)
		32-CH	32-CH	5-35V	Darlington			PCI/PCIe-7432HIR(2)
			64-CH					PCI-7434
			32-CH					PCI-7234
Relay DO	0-24 V Isolated	2-CH		350 V, 0.12 A	PhotoMos Relay			PCI-7258
		16-CH	16-CH	125 VAC, 0.5 A 30 VDC, 1 A	Latching Relay			PCI/PCIe-7256
		8-CH	8-CH	250 VAC, 5 A 30 VDC, 5 A	High-Power Relay			PCI-7260
				120 VAC, 0.5 A 24 VDC, 1 A	Relay			PCI/LPCI/LPCIe-7250
High-Speed DIO	1.8V/2.5V/3.3V SW Selectable	32-CH S/W Programmable		1.8V/2.5V/3.3V SW Selectable		200 MB/s		PCIe-7350
						400 MB/s		PCIe-7360
TTL DIO	5 V TTL			5 V TTL		80 MB/s		PCI/PCIe-7300A
		32-CH	32-CH			12 MB/s		PCI/PCIe-7200
		96-CH S/W Programmable						PCI-7396
								PCI/PCIe-7296(1)
		48-CH S/W Programmable						PCI/PCIe-7248(1)
		24-CH S/W Programmable						PCI-7224(1)
Timer/ Counter		8-CH	8-CH				10-CH/ 16-Bit	PCI-8554

Note: (1) Opto-22 compatible (2) HIR: High input range

PXI and PXI Express Platform

ADLINK offers over 100 different PXI bus products for automation testing and measurement applications, including chassis, controllers and a variety of PXI modules, enabling easy integration of required test and measurement functions.

PXI/PXIe Chassis

Available for 3U/6U 6-19 slot chassis, bench-top, integrated and portable chassis



PXI/PXIe Controller

Controller options include high-performance embedded controllers and remote controllers





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Fanless Embedded Computers Selection Guide

			High Performance						
			MXC-6400 Series			MXC-6300/6310/6320 Series			
Expandable Fanless Embedded Computers									
Model Name			MXC-6401D	MXC-6402D	MXC-6403D	MXC-6301D/ 6311D/6321D	MXC-6302D/ 6312D/6322D	MXC-6303D / 6313D/6323D	MXC-6305D/ 6315D/ 6325D
System	*Processor*		Intel® Core™ i7-6820EQ	Intel® Core™ i5-6440EQ	Intel® Core™ i3-6100E	Intel® Core™ i7-3610QE	Intel® Core™ i5-3610ME	Intel® Core™ i3-3120ME	Intel® Celeron 1020E
	Chipset		Intel® QM170			Intel® QM77			
	Memory		4GB DDR4 2133 MHz (up to 32 GB), 2 SO-DIMMs			4 GB DDR3 1600 MHz SODIMM module			
	Video		2 DisplayPort 1.2 (4096 x 2304) 1 VGA+DVI Dual display output by DVI-I connector			2 DisplayPort + 1 VGA or 2 DisplayPort + 1 DVI-D			
I/O Interface	*Expansion Slots*		1 PCI + 2 PCIe x 8 slots or 1 PCI + 1 PCIe x16 slots			1 PCI + 2 PCIe x 8 slots or 1 PCI + 1 PCIe x16 (MXC-6300 Series) 1 PCI + 1 PCIe x 16 (MXC-6310 Series) 3 PCI + 1 PCIe x1 6 (MXC-6320 Series)			
	Ethernet		3 Intel® GbE ports			2 Intel® GbE ports			
	Serial Port	*COM1 & COM2*	2 RS-232/422/485			2 RS-232/422/485			
		COM3 & COM4	2 RS-232			2 RS-232			
	USB Port		6 external USB 3.0 + 1 internal USB 2.0			6 external USB ports (4 USB 3.0 + 2 USB 2.0) + 1 internal USB 2.0			
	CAN		-			-			
	DIO		Isolated 16-CH DI + 16-CH DO			Isolated 16-CH DI + 16-CH DO			
Manageability	*Watchdog Timer*		√			√			
	SEMA		√			-			
Storage	*SATA HDD*		Two 2.5" hot-swappable SATA III drive bay Two 2.5" onboard SATA III HDD/SSD			Two onboard 2.5" SATA III HDD/SSD			
	CompactFlash		1 type II CFAST socket			2 CFast socket (1 external + 1 internal)			
	*Operating Temperature**		Standard: 0°C to 50°C (w/HDD) Extended option*: -20°C to 70°C (w/industrial SSD or CFAST)			Standard: 0°C to 50°C (w/HDD) Extended option: -20°C to 55°C for MXC-63 x 1D, -20°C to 60°C for MXC-63x2D/63x3D/ 63x5D (w/ industrial SSD or CFast)			
	Vibration		With CFast/SSD: 5 Grms With HDD: 0.5 Grms			With CFast/SSD: 5 Grms With HDD: 0.5 Grms			
	ESD		Contact +/-4 KV and Air +/-8 KV			Contact +/-4 KV and Air +/-8 KV			
	Shock		With CFast/SSD: 50 G			With CFast/SSD: 50 G			
	EMC		CE and FCC Class A			CE and FCC Class A			
	Safety		UL/cUL,CB			UL/cUL, CB, KCC			
General	*Power Supply*		9-32 VDC			9-32 VDC			
Mechanical	*Dimensions*		170 (W) x 225 (D) x 200 (H) mm (6.69" x 8.86" x 7.87")			MXC-6300/6320 Series: 172.5 (W) x 225 (D) x 213 (H) mm (6.9" x 9"x 8.52") MXC-6310 Series:154 (W) x 225 (D) x 213 (H) mm (6.16" x 9" x 8.52")			
Operation System			Win 7/Embedded standard 7/10, Linux Ubunto 12.04 and Fedora 18**			Win 7/Embedded standard 7/XP/XP Embedded, Linux **			

* Heat Dissipation from inserted PCI/PCIe cards may affect thermal performance.
**Linux Distribution by request

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Expandable/ Integrated Fanless Embedded Computers





			Value Family					
			MVP-6000 Series			MVP-5000 Series		
Model Name			MVP-6001	MVP-6002	MVP-6003	MVP-5001	MVP-5002	MVP-5003
System	*Processor*		Intel® Core™ i7-6700TE	Intel® Core™ i5-6500TE	Intel® Core™ i3-6100TE	Intel® Core™ i7-6700TE	Intel® Core™ i5-6500TE	Intel® Core™ i3-6100TE
	Chipset		Intel® H110			Intel® H110		
	Memory		4GB DDR4 2133 MHz (up to 32 GB), 2 SO-DIMMs			4GB DDR4 2133 MHz (up to 32 GB), 2 SO-DIMMs		
	Video		2 DisplayPort 1.2 (4096 x 2304) 1 DVI (4096x2160) 1 VGA			2 DisplayPort 1.2 (4096 x 2304) 1 DVI (4096x2160) 1 VGA		
I/O Interface	*Expansion Slots*		1 PCI + 1 PCIe Gen3 x16			-		
	Ethernet		3 Intel® GbE ports			3 Intel® GbE ports		
	Serial Port	*COM1 & COM2*	2 RS-232/422/485			2 RS-232/422/485		
		COM3 & COM4	2 RS-232			2 RS-232		
	USB Port		4 USB 3.0 + 2 USB2.0 1 internal USB 2.0			4 USB 3.0 + 2 USB2.0 1 internal USB 2.0		
	CAN		-			-		
	DIO		8-CH DI + 8-CH DO			8-CH DI + 8-CH DO		
Manageability	*Watchdog Timer*		√			√		
	SEMA		-			-		
Storage	*SATA HDD*		One 2.5. onboard SATA III HDD/SSD			One 2.5. onboard SATA III HDD/SSD		
	CompactFlash		1 type II CFAST socket			1 type II CFAST socket		
	*Operating Temperature**		Standard: 0°C to 50°C			Standard: 0°C to 50°C		
	Vibration		With CFast/SSD: 5 Grms With HDD: 0.5 Grms			With CFast/SSD: 5 Grms With HDD: 0.5 Grms		
	ESD		Contact +/-4 KV and Air +/-8 KV			Contact +/-4 KV and Air +/-8 KV		
	Shock		With CFast/SSD: 50 G			With CFast/SSD: 50 G		
	EMC		CE and FCC Class A			CE and FCC Class A		
	Safety		UL/cUL,CB			UL/cUL,CB		
General	*Power Supply*		12-24 V_{DC}			12-24 V_{DC}		
Mechanical	*Dimensions*		220 (W) X 210 (D) X 170(H) mm (8.66" x 8.27" x 6.69")			220 (W)X 210(D) X 121(H) mm (8.67" x 8.27" x 4.76")		
Operation System			Win 7/10/Embedded standard 7, Linux Ubunto 12.04 and Fedora 18**			Win 7/10/Embedded standard 7, Linux Ubunto 12.04 and Fedora 18**		

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Fanless Embedded Computers Selection Guide

Integrated Fanless Embedded Computers

			High Performance			Entry Level	Ultra Compact	
			MXE-5500 Series			MXE-1400 Series	MXE-200 Series	
								
Model Name			MXE-5501	MXE-5502	MXE-5503	MXE-1401	MXE-201	MXE-202
System	*Processor*		Intel® Core™ i7-6820EQ	Intel® Core™ i5-6440EQ	Intel® Core™ i3-6100E	Intel® Atom™ E3845	Intel® Atom™ E3845	Intel® Atom™ E3826
	Chipset		Intel® QM170			SoC	SoC	
	Memory		4 GB DDR4 2133 MHz (up to 32 GB)			2 GB DDR3L 1600 MHz (Up to 8 GB)	2 GB DDR3L 1066 MHz (Memory Down)	
	Video		2 DisplayPort 1.2 (4096x2304) 1 DVI-I (2048x1152)			1 DisplayPort + 1 DVI-I	1 HDMI	
I/O Interface	*Expansion Slots*		2 mPCIe slots			2 mPCIe slots (1x half size)	2 mPCIe Slots	
	USIM		2 USIM slots			1 USIM slot	1 USIM slot	
	Ethernet		4 Intel® GbE ports			3 Intel® GbE ports	2 Intel® GbE ports	
	Serial Port	*COM1 & COM2*	2 RS-232/422/485			2 RS-232/422/485	1 RS-232 + 1 RS-232/422/485**	
		COM3 & COM4	2 RS-232/422/485			2 RS-232/422/485	-	
		COM5 & COM6	2 RS-232			2 RS-232	-	
	USB Port		4 USB 3.0 + 4 USB 2.0			6 USB 2.0 + 1 USB 3.0+ 1 USB 2.0 dongle	2 USB 2.0 + 1 USB 3.0	
	DIO		Isolated 8-CH DI + 8-CH DO			Isolated 8-CH DI + 8-CH DO	Isolated 4-CH DI + 4-CH DO (optional)	
Manageability	*Watchdog Timer*		√			√	√	
	SEMA		SEMA 3.0			SEMA 2.5 support with BMC	SEMA support with BMC	
Storage	*SATA HDD*		2 x 2.5" HDD/SSD drive bay			2.5" HDD/SSD drive bay	-	
	CompactFlash		1Type II CFast			1 Type II CFast	-	
	mSATA / M.2		1 M.2			-	1 mSATA (same slot with mPCIe)	
	SD		-			-	1 SD card slot (up to 16 GB)	
Environment	*Operating Temperature**		Standard: 0°C to 50°C Extended option: -20°C to 60°C for MXE-5501; -20°C to 70°C for MXE-5502/5503: (w/Ind. SSD or CFast)			Standard: 0°C to 50°C Extended option: -20°C to 70°C(w/Ind. SSD or CF)	Standard: 0°C to 50°C Extended option: -20°C to 60°C for MXE-201; -20°C to 70°C for MXE-202 (w/Ind. SD or mSATA)	
	Vibration		With CF/SSD: 5 Grms With HDD: 0.5 Grms			With CFast/SSD: 5 Grms	With SD/mSATA: 5 Grms	
	ESD		Contact +/- 4 KV, Air +/- 8 KV			Contact +/-4 KV, Air +/-8 KV	Contact +/-4 KV and Air +/-8 KV	
	Shock		With CF/SSD: 100 G With HDD: 20 G			With SD/mSATA: 100 G	With SD/mSATA: 100 G	
	EMC		CE and FCC Class A			CE and FCC Class A	CE & FCC Class A, EN 61000-6-4/EN 61000-6-2	
	Safety		UL by CB			UL by CB	UL by CB	
General	*Power Supply*		9-32 V_{DC}			9-32 V_{DC}	6-36 V_{DC}	
Mechanical	*Dimensions*		230 (W) x 204 (D) x 90 (H) mm (9" x 8" x 3.54")			210 (W) x 170 (D) x 70 (H) mm (8.3" x 6.75" x 2.8")	120 (W) x 100 (D) x 55 (H) mm (4.68" x 3.9" x 2.17")	
Operation System			Win 10/ 7/ Embedded Standard 7,Linux**			Win10/7/ Embedded Stand 7, Linux**	Win10/7/ Embedded Stand 7, Linux**	

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IoT Gateways

			MXE-110i Series	MXE-200i Series
				
Model Name			MXE-110i	MXE-202i
System	Processor		Intel® Quark™ X1021	Intel® Atom™ E3826
	Chipset		SOC	SOC
	Memory		512 MB DDR3 800 (Up to 1 GB)	2 GB DDR3L 1066 (Memory Down)
	Video		-	1x HDMI
I/O Interface	Expansion Slots		2 mPCIe Slots	2 mPCIe Slots
	USIM		1 USIM slot	1 USIM slot
	Ethernet		2 10/100 LAN	2 GbE (Intel® I210-IT)
	Serial Port	COM1 & COM2	1 RS-232 + 1 RS-232/422/485**	1 RS-232 + 1 RS-232/422/485**
	USB Port		2 USB 2.0	2 USB 2.0 + 1 USB 3.0
Manageability	Watchdog Timer		√	√
	SEMA		SEMA support with BMC	SEMA support with BMC
Storage	SATA HDD		-	-
	CompactFlash		-	-
	mSATA / M.2		-	1 mSATA ***
	SD/eMMC		1 eMMC (up to 32 GB)	1 SD card slot (up to 16 GB)
Environment	Operating Temperature*		Standard: 0°C to 50°C; Extended option: -20°C to 70°C (w/ eMMC)	Standard: 0°C to 50°C; Extended option: -20°C to 70°C for MXE-202i (w/Ind. SD/mSATA)
	Vibration		With SSD: 0.5 Grms	With SSD/mSATA: 0.5 Grms
	ESD		Contact +/-4 KV, Air +/-8 KV	Contact +/-4 KV, Air +/-8 KV
	Shock		With eMMC : 100 G	With mSATA: 100 G
	EMC		CE and FCC Class A	CE and FCC Class A
	Safety		UL by CB	UL by CB
	Certifications		EN 61000-6-4/EN 61000-6-2	EN 61000-6-4/EN 61000-6-2
General	Power Supply		6-36 VDC	6-36 VDC
Mechanical	Dimensions		120 (W) x 100 (D) x 50 (H) mm (4.68" x 3.9" x 1.97")	120 (W) x 100 (D) x 55 (H) mm (4.68" x 3.9" x 2.17")
Operation System			Wind River® IDP XT 3.1	Wind River® IDP XT 2.0/ 3.1, Win 10 IoT

*Extending the operating temperature is optional and requires use of an industrial solid-state drive storage device or CFast.
** RS-232 supports Tx, Rx signed only.
*** mSATA shares the same slot with mPCIe

Intelligent IoT Gateway Starter Kit

ADLINK's IoT Gateway Starter Kit simplifies connection and accelerates deployment. It's a great way to build your Internet of Things!

The Starter Kit combins ADLINK's MXE-202i intelligent IoT gateway, ADLINK's EdgePro IoT device & sensor management application, and sensor devices, all utilizing industrial open standard protocol with security function powered by Intel® IoT Gateway.



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