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Advantech Contact

G2 Advantech Contact Office

About Advantech

Co-Creating the Future of the IoT World

Founded in 1983, Advantech is a leading global provider of intelligent IoT systems and embedded platforms. Embracing the recent trends of IoT, big data, and artificial intelligence, Advantech develops IoT hardware and software solutions based on its WISE-PaaS industrial IoT cloud platform to assist partners and customers with integrating industry chains. Advantech also works with partners to co-create business ecosystems that facilitate intelligent industry and realize its corporate goal of "Enabling an Intelligent Planet".

Advantech's Good-to-Great 3-Circle Principle

The Advantech 3-Circle Principle is based on the book Good to Great by Jim Collins. According to the book, a company looking for long-term success should clearly address these three fundamental principles, and commit to their continuing, solid execution. Advantech is fully committed to this approach and has defined the Advantech "Good to Great 3-Circle Principle" as a means of adhering to it.



World-Class Recognition

Advantech is an authorized alliance partner of both Intel[®] and Microsoft[®]. Our customers find the technologies we use inside our products to be widely compatible with other products in the global marketplace. Interbrand, the world renowned brand consulting firm, has for many years recognized Advantech as one of the Top 10 Taiwanese Global Brands.

Advantech appreciates this recognition of our efforts to build a trusted, global brand; it also symbolizes a promise we give to our business partners, which is to keep building a trustworthy brand that is recognized everywhere and improves the lives of all.

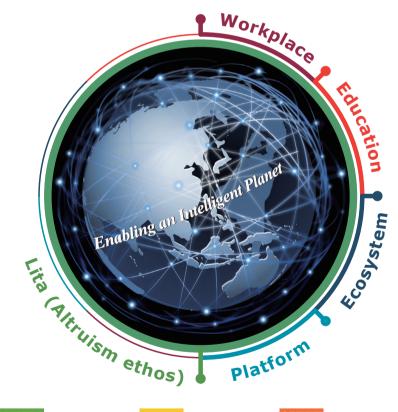
Corporate Sustainability Statement

Enabling an Intelligent Planet by Co-Creating the Future of Industrial IoT and Smart Cities Through Ecosystem Partnership and Academic Collaboration

Increasing urbanization, aging populations, and resource depletion have given rise to numerous environmental and social issues. Advantech is committed to addressing these global challenges by leveraging its innovations in IoT technology and integrating sustainable development initiatives into its operating strategies. Therefore, in 2018, Advantech cooperated with external consultants to redefine its four key initiatives as—establishing an innovative work environment, cultivating IoT talent, collaborating with co-creation partners and academia, and developing an open ecosystem—in order to achieve an intelligent planet.

In response to global sustainable development goals, Advantech promises to assist its employees, ecosystem partners, and industrial and academic organizations by leveraging its industrial IoT technology to build smart city and Industry 4.0 solutions, thereby creating new and sustainable value for society, the environment, and the planet.

Advantech uses its core IoT technology to enhance health service quality, energy efficiency, industrial automation, logistics/retail, carbon footprint reduction, and manufacturing efficiency around the world, in accordance with SDGs 3, 7, 9, 11, and 12. Elements of Advantech's operational strategy, such as maintaining an innovative environment, IoT education, co-creation partnerships, and open platforms, contribute to global sustainability goals, in accordance with SDGs 8, 4, and 17 regarding productivity and employment, education and collaboration.



Workplace

Building an inclusive environment and platform for Advantechers to embrace a passionate life.

Education

Promote Industrial IoT education through academia and industry collaborations.

Ecosystem

Cooperate with co-creation partners to lead the Industrial IoT value chain.

Platform

Achieve an Intelligent Planet to realize a sustainable community and environment.





Good Health and Well-Being





Industry, Innovation and Infrastructure



Sustainable Cities and Communities



Responsible Consumption and Production

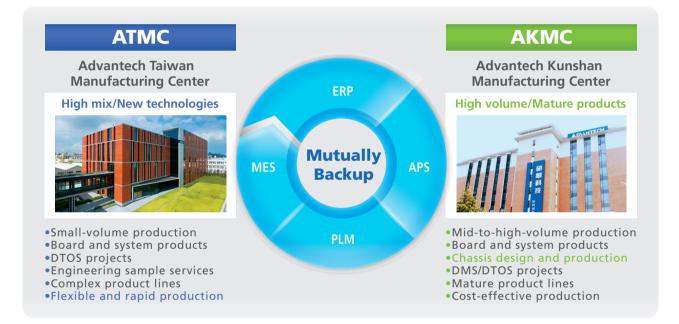
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Advantech Global Services

Advantech has offices in 27 countries, with over 20 regional hotlines and more than 8,000 employees dedicated to providing efficient, professional services related to customer care, product selection, technical support, and order handling. Our call centers and online stores offer worldwide customers the convenience of multi-service channels as well as accelerated turnaround times. Supported by four logistics centers located in Taiwan, China, Europe, and the United States, Advantech's global service network offers an extensive spectrum of services that includes warehousing, logistics, peripheral certification, sourcing and purchasing, RMA, value-added services, and technical support and training.

Manufacturing

Both of Advantech's world-class manufacturing centers located in Taiwan and China maintain precise quality control and deliver comprehensive, timely, and cost-effective production. To maximize the efficiency of production operations, we have implemented a cluster manufacturing system within our segmented manufacturing service units. This unique approach enables a direct, simplified, and highly streamlined design-to-manufacturing process.



- In-house board, chassis, and system production
- Dual world-class manufacturing centers minimize business risks
- Advanced production capabilities and customizable processes
- Rigid quality assurance system
- Comprehensive ISO standard coverage

Quality and Environmental Compliance

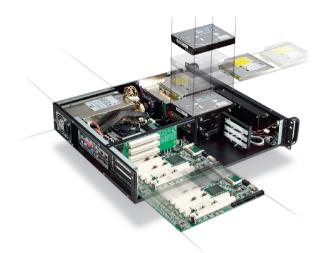
As a member of the global village, Advantech understands the importance of preserving the environment. Our environmental programs focus on reducing, reusing, and recycling materials used in our manufacturing operations. Advantech's quality and environmental compliance efforts include the following:

- ISO 9001 Certification
- ISO 14001 Certification
- ISO 13485 Certification
- OHSAS 18001 Certification
- TL9000 Certification
- ISO 17025 Certification
- RoHS Directive Compliance
- WEEE Directive Compliance
- Authorized Sony Green Partner
- REACH SVHC Directive Compliance
- RMI Conflict Minerals Declaration

Quality-Assured Peripheral Procurement Services

Advantech's global peripheral procurement network consists of local teams that leverage strong relationships with worldwide suppliers and diligent vendor and product management to provide quality-assured compatible peripherals with short lead times and competitive prices.

- Localized procurement with global network support
- Global standardization management; 100% compatible peripherals
- Trusted quality with revision control
- Short lead times and competitive prices



Configure-To-Order Services

Advantech's Configure-To-Order services (CTOS) increase the accessibility of industrial computing solutions with the provision of web-based configuration tools, complex assembly services that support high-mix low-volume box builds and customized assembly, design modification, system integration, and functional testing services.

- Web-based intelligent configuration
- Comprehensive approach to complex configuration solutions
- Local customized configuration services
- 2-year global warranty for systems and integrated peripherals

Global Logistics Services

With strong integrated ERP and SAP supply chain solutions, our global logistics network offers a wide range of options for different delivery models including local and global solutions that meet your unique needs and budget requirements.

- Optimized and flexible shipping solutions
- Centralized sites for local delivery
- Integrated ERP and SAP supply chain solutions with a global distribution network

Global Customer Support Services

Advantech's global presence enables reliable, localized customer support services. We offer optimized maintenance and support plans by leveraging the full scope of our service portfolio to help you reduce costs and proactively mitigate business risks. In addition to complete technical and service support, we also offer a variety of customizable service packages. Our knowledgeable local support teams are able to deliver consistent customer support around the world and help you maintain peak performance and cost efficiency.

Moreover, to further extend Advantech's services, we launched the Buy.Advantech online store for a one-stop shopping experience. This eStore provides comprehensive product information for building systems, live expert support for troubleshooting, online configuration for easy customization, instant quotations, an extensive library of FAQs, and all the latest software and firmware downloads.

- 24/7 technical support with live online chat
- Global deployment with local full-line repair capabilities
- Easy-to-use web-based repair tracking system (eRMA)
- Wide variety of value-added after-sales service packages



WISE-PaaS AloT Services and Advantech Marketplace

Enabling Digital Transformation with the WISE-PaaS Industrial IoT Cloud Platform and User-Oriented Marketplace

WISE-PaaS Industrial IoT Cloud Platform

Advantech's WISE-PaaS Industrial IoT cloud platform provides edge-to-cloud software and services that assist system integrators and manufacturers by enabling IoT-powered cloud business models in various vertical markets. Leveraging Advantech's extensive hardware portfolio, WISE-PaaS integrates diverse software services, including WebAccess, WISE-PaaS/WISE.M+, WISE-PaaS/EdgeLink, WISE-PaaS/DeviceOn, and WISE-PaaS/VideoSense. Data collected for the WISE-PaaS/EnSaaS IoT cloud platform enables partners to quickly develop SaaS and domain-specific IoT solutions.

Domain I.Apps Energy & Machine ¹ iFactory/) Industry 4.0 **Smart City** iHealthcare iRetail **iLogistics** Environment to Intelligence EnSaaS Listing Service . . End To End Security: SSL/TLS WISE-PaaS/EnSaaS Visualization Services Asset Performance Manage ment (APM) AI Fram ework Service (AFS) WISE-PaaS/Dash WISE-PaaS/APM WISE-PaaS/AFS WISE-PaaS/SaaS Comnose Microservices Asset Models Alarm/Trigge Code IDE Model Management Framework Multiple Data Sources Asset Evaluation OTA Hyper Parameter · Inference Engine Deploy Workflow Integration · Auth. Mamt. API Gateway 2D & 3D Rendering Feature Extraction Compute Resource Mamt. Data Pre-Processing Service Discovery **Microservices** Breaker Commercial Service DB Storage & IoT Hub Serv · Rate-Limiting 2 Health Check Subscription & License Auto Scaling 🚳 influxdata **Data Platform** Load Balancing Single Sign-On Log & Metrics Private Domain A MINIO Dynamic Expansion mongoDB Consumption Mgmt. · Alarm & Notification · Code Pipeline Multi Languages Support Metering & Billing **■**RabbitMQ 🗞 kafka 😂 redis Edge Intelligence Services 🛦 Istio Knative WebAccess/SCADA WISE-PaaS/WISE.M+ WISE-PaaS/ DeviceOn WISE-PaaS/VideoSense WISE-PaaS/LwM2M Cross Clouds/ Regions Deployment Micro Services Elastic Scaling Multi-Tenancy 谷子 Resource High Availability 囵 CO DevSecOPs CLOUD FOUNDRY 🛞 kubernetes 📉 CLOUD NATIVE OCF Azure AKS Amazon EKS Alibaba ACK laaS Management aws Public Clouds: 🔥 Azure C C Alibaba Cloud Private Clouds: WISE-STACK openstack. **vm**ware

WISE-PaaS 4.0 Architecture with Microservices and I.App

WISE-PaaS Features

Cross Clouds/ Regional Deployment

Offers laaS options to satisfy diverse market development needs

- Public cloud: 🔺 Azure aws 🕻 🕽 Alibaba Cloud
- Private cloud: WISE-STACK Copenstack. VMWare

Scalable

The cloud-native environment is highly scalable and provides operational benefits at any scale, accelerating solution deployment.

Kubernetes 📉 CLOUD NATIVE

Flexible

Provides a microservice development framework for component flexibility and improved development efficiency.

Edge-to-Cloud-Ready

Seamless edge-to-cloud integration from devices to the WISE-PaaS data platform maximizes data utilization and accelerates solution development.

Speed-to-Market

The configuration-driven WISE-PaaS platform facilitates rapid solution development and deployment with high resource efficiency.

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WISE-PaaS Ecosystem

As the IoT landscape is fragmented into various domains, partnership is key to thriving in this new environment. Accordingly, Advantech is building a collaborative ecosystem on its WISE-PaaS industrial IoT cloud platform. The WISE-PaaS platform's decoupled and open design allows partners to develop AIoT solutions efficiently. By joining the ecosystem via the WISE-PaaS VIP Program and Advantech's co-creation model, partners will enjoy global exposure while leveraging Advantech sales channels. The WISE-PaaS ecosystem enables successful AIoT digital transformations, complete industrial IoT value chains, and expands the scale of modern industries.



WISE-PaaS Marketplace 2.0

Advantech's WISE-PaaS Marketplace is the destination for all industrial software solutions. The online marketplace provides access to software, end-to-end solutions, industrial apps, consultation services, marketing packages, as well as microservice tools that accelerate the development of industrial apps and solutions.

- Subscription
- Deployment
- Listing
- Customization



Explore Now

Innovative IIoT Edge to Cloud Technologies

Fther**CAT Smart Camera** EtherCAT I/O Controllers ICAM-7000 Series EtherCAT Control IPC EtherCAT Remote I/O AMAX-5580 AMAX-5000/4800 Series **Domain Platforms VisionNavi** AlNavi Task Flow Machine Deep-learning-based Oil & Gas Vision APP. Software Image Analysis Software TPC / FPM / EKI / ADAM Series ENEO4 ER Railway ITA / ARS / EKI Series IEC61850 Utility & Energy ECU-4000 Series **AD\ANTECH HMINavi** HMI Software Navi for Machine Visualization OPC UA **DAONavi MotionNavi** SoftMotion on CODESYS High Speed Data Software Platform Acquisition & Condition Wireless I/O & Sensors Monitoring WI-Fi LORaMAN WI-Fi LTE-Q WISE-2000/ 4000 Series DAQ and Remote I/O AD\ANTECH USB / ADAM-4000/6000 Series / PCIe Cards Advantech Industrial Wireless

Edge Al Systems



Al Inference System **MIC-700AI Series**

NVIDIA Jetson TX2

MIC-700IVA Series

NVIDIA Jetson AGX Xavier

NVIDIA Jetson Nano

Automation Systems UNO/MIC/HMI/IPC Series



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WebAccess/SCADA

IoT Application Software Platform

WISE-PaaS/ EdgeLink

Powerful Edge-to-Cloud Middleware for Intelligent **Gateway Solutions**

WISE-PaaS/WISE.M+

Industrial IoT Cloud-Based Monitoring & Operating Platform

- Equipment Mgmt.
- Device Could Mgmt.
- Docker Container Mgmt.





Connectivity & TSN



Cellular Router / Switch / Wireless Comm. ICR-1000/3000/4000 Series; EKI-7000/8000 Series



The Industrial Internet of Things (IIoT)

Advancing Key Growth Areas in Industry 4.0, Industrial Equipment Manufacturing, Energy & Environment and Transportation

Driven by the convergence of information technology (IT) and operational technology (OT), the Industrial Internet of Things (IIoT) is a matrix of networks connecting equipment and devices, collecting data via sensor technology, computing and integrating data into platforms as services, and creating new business models and possibilities. IIoT is set to open up a new era of industrial applications with myriad opportunities for economic growth. To support the development of IIoT, Advantech provides comprehensive edge-to-cloud products, solution ready packages, and cloud-enabled IoT Edge Intelligence-WISE-PaaS services that build out key IIoT infrastructure. The Advantech IIoT Group is devoted to focusing on four go-to-market sectors - General Automation, iFactory, Industrial Equipment Manufacturing, Industrial Infrastructure that fulfill customers' diverse application needs.



Enabling Industry 4.0 with Edge Intelligence Solutions

Industry 4.0 is transforming manufacturing worldwide. Factory management needs assistance as they either upgrade existing facilities, or establish new ones that take advantage of Industry 4.0 optimization. Advantech IoT solution architecture enables the development of iFactory Solution Ready Packages (SRPs) that help customers as they embrace Industry 4.0. Advantech's iFactory SRPs are quick-start tools that enable a step-wise approach to achieving Industry 4.0.

The Industry 4.0 situation room is the most important upgrade to intelligent transformation. The Industry 4.0 situation room is the factory's nerve center where data is collected, analyzed, and visualized for real-time management. The situation room is realized with the iSensing devices, edge intelligent gateways, WISE-PaaS software platforms, and iFactory SRP solutions.

iFactory solutions facilitate machine connection without replacing existing equipment, allowing for collection of equipment status data, production data, and environmental data. Data acquisition enables production monitoring, data integration

with MES, and visualization on the situation room dashboard for production optimization and data-driven decision making. The WebAccess App enables push notifications of unexpected downtime, allowing immediate action to be taken. Advantech realizes the intelligent factory from a user perspective, and helps customers embrace Industry 4.0.





The best industrial equipment manufacturing solutions for equipment builders

A key step Advantech adopts to realize smart manufacturing is to connect devices, computing systems, and equipment all together to accomplish data acquisition and integration. and import services to accomplish manufacturing process integration. Advantech achieves the network connection of equipment and devices needed to improve manufacturing and transform industry.

The product offerings of Advantech's industrial IoT include Internet of Things software – WebAccess, industrial communication products, gateways, PC-based control platforms, industrial computing platforms, servers and data capture modules. Meanwhile, Advantech also provides equipment automation and intelligent factory solutions. In the vertical markets of equipment automation, Advantech works with partners to find the most suitable industrial machinery, electronic equipment, and manufacturing solutions to meet the needs coming from diverse markets.

Cloud-enabled Energy and Environment Solutions

With growing public concern over energy usage and the environment, Advantech's E&E market solutions have an industrial IoT-oriented focus on the processes of sensing. control monitoring, remote communication, and data management.

By combing these technologies with WebAccess and the WISE-PaaS IoT edge intelligence platform, both of which are reliable tools for information integration and data analysis, our industry Apps, edge intelligence, and WISE-Paas/WISE.M+ solutions can be widely utilized in a variety of E&E industries.

WISE-PaaS 0): e **alle** Rest-Industry Apps

Advantech's solution for energy and environment management including energy management, solar power

management, water treatment, environmental monitoring, and agricultural management integrate domain-specific knowledge, and the WISE-PaaS cloud platform to helping our customers achieve IoT optimization by managing their connected devices in the cloud.



Intelligent Transportation Systems

Whether it's the railway, roadway, transportation hub, or any other transportation system, Advantech is dedicated in its efforts to provide the most stable, intelligent transportation systems for cities around the world. From edge sensor devices and industrial communication products, to computing and panel platforms and the WISE-PaaS loT cloud platform, we provide a diverse product mix for the transportation sector.

Our products are carefully designed to ensure the highest standards of reliability, flexibility, and expandability with enhanced operating longevity. All Advantech products are industry certified. With decades of experience, Advantech has developed the extensive technical know-how and domain knowledge needed to build transportation systems on the

basis of individual needs and requirements. Today, we can proudly point to an extensive selection of successful case studies in the transportation field. With our comprehensive range of product offerings and considerable industry experience, we are a one-stop solution provider for building your next transportation application.



Driving Digital Transformation in Industrial IoT

Advantech Industrial IoT Group continues to explore the latest technologies and what they bring to our industries and lives, including Industrial AI, Edge Computing, Time-Sensitive Networks (TSN) and 5G development. With over three decades of proven experience, we combine information, automation, and communication technologies with efficiency, energy conservation, minimized risk, cost effectiveness, and environmental protection to create solutions to drive digital transformation and enable an intelligent planet.

• General Automation

Cloud and edge solutions

Industrial systems and platforms
IoT devices and communications

1

Transportation

- Railway
- Road network
- Transport hub

Industrial Equipment Manufacturing (IEM)

- Machine automation
- Predictive maintenance
- Remote control and video capture
- Edge computing

iConnectivity

- WebAccess/NMS
- Cellular routing solution

Van

- Wired & wireless network infrastructure
- Protocol & interface conversion solution

Energy and Environment

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- Energy management
- Solar power management
- Water management
- Pollution monitoring

iFactory

- OEE monitoring
- Industry 4.0 situation room
- Factory energy & environment monitoring
- Warehouse management

Industry 4.0

15

Industry 4.0 is transforming manufacturing worldwide. Factory management needs assistance as they either upgrade existing facilities, or establish new ones that take advantage of Industry 4.0 optimization. Advantech's IoT solution architecture strategy enables the development of iSensing devices, edge intelligent gateways, and edge solution ready platforms (ESRP) that help our customers embrace Industry 4.0.



WebAccess Software



Advantech WebAccess

IIoT application software platform

Edge Solution Ready Platforms



ESRP Series
Software-hardware integrated solutions

Wireless I/O Modules



WISE-4220/WISE-4000 Series • IoT Wi-Fi 2.4GHz wireless I/O modules

Remote I/O Modules

2



ADAM-3600/4000/5000/ 6000/6700 Series

- RS-485/USB & Ethernet I/O
- Intelligent I/O gateway

• RS-232/422/485 converters

16

Machine to Intelligence

- Real-time monitoring for cloud-based Machine-to-Intelligence (M2I) management.
- Robot management with machine status monitoring, diagnosis, and intelligent prediction.
- CNC machine monitoring for enhanced CNC management and predictive maintenance.

Predictive Maintenance

- Access multiple data sources in real time to predict asset failures or quality issues and improve operational processes.
- Intelligent predictive analytics to prevent unexpected breakdowns, allowing maintenance to be planned before failures occur.

OEE Monitoring

- Data acquisition from wireless shop-floor devices in real time.
- Overall Equipment Effectiveness (OEE) monitoring for realizing equipment connectivity and effective optimization.
- Dashboard visualization with machine availability, downtime, and streamlined balance rates.

Industry 4.0 Situation Room

- Factory nerve center where data is collected, analyzed, and visualized for real-time management and data-driven decision making.
- Data consolidation and visualization framework easily accessible to factory managers.
- Real-time management for efficiency improvements and production optimization.

Factory Energy & Environment Monitoring

- Factory energy management system to enable energy supply and consumption optimization to reduce factory operating costs.
- Temperature and humidity monitoring to optimize factory operations.
- Factory safety can be monitored for dust, gas, CO2, water and other hazardous materials to ensure the factory environment is safe.

Warehouse Management

- Automated guided vehicles (AGV) solution to transport materials and products.
- Full warehouse inventory visibility to optimize warehouse management.
- Paperless warehouse management in real time to ensure competitive and successful distribution operations.

Industrial Communication



- EKI, ICR and WISE seriesTSN/Ethernet connectivity
- Wireless connectivity

Industrial Controllers



UNO-1000/3000, AMAX-5000 & MIC-7 series • Control IPCs



IIoT Gateways

ECU-1000 & UNO-2000 Series • Industrial IoT gateways

Intelligent HMI



TPC & PPC Series
 Industrial control panels, thin clients, operator panels, and monitors

Industrial Equipment Manufacturing Solutions

The key step Advantech adopts to realizing intelligent manufacturing and smart equipment is to connect devices, computing systems, and equipment together to accomplish data acquisition, analysis, and visualization. Cloud platform services and dashboards complete data integration and allow network connection of all equipment and data to achieve intelligent manufacturing processes and industry transformation.



Motion Control

17



- Supports versatile EtherCAT servo/stepping motor
- Pulse train control via EtherCAT motion module

Machine Vision



- Easy multi-task configuration without programming
- Intuitive menu-driven GUI shortens the learning curve

Industrial Ethernet Switch & Wireless Network

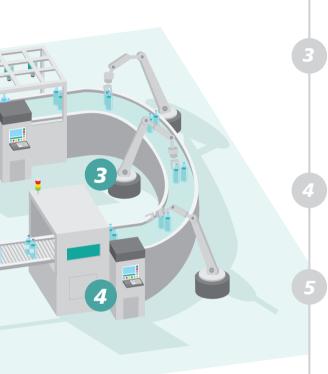


• Wired & wireless network infrastructure

Data Acquisition



- Provides a wide range of I/O devices with various interfaces and functions
- Reliable and accurate data acquisition hardwares and graphical software tools



Deep Learning

• Defect inspection in multi-product line and multi-defect application

18

- Can be implemented to replace manual inspection
- Reduces complexity and increases reliability on the factory floor

Protocol Gateway

- Supports various widely used industrial protocols such as PROFINET, EtherNET/IP and EtherCAT
- Seamless conversion between each industrial protocol
- Efficiently connect to different protocol equipment with redundancy and management features

Predictive Maintenance

- Wide-range of industrial data acquisition and control devices with various interfaces and functions
- Reliable, accurate, affordable, and suitable for diverse industrial automation applications
- Enables customers to seamlessly integrate data acquisition cards with the latest platforms for improved performance and reduced development time

Edge Computing

- Modular design for PC-based controllers, industrial PCs, and panel computers
- High system configuration flexibility to meet the needs of various applications
- Minimize lead times with global CTOS capability

Motion Control and Machine Vision

- Unique SoftMotion kernel and innovative GigE Vision offloads engine using FPGA, DSP and ARM as the core-computing platform
- Provides versatile solutions and optimum motion / vision performance for fulfilling the demands of OEM machine makers and system integrators

Industrial Connectivity

- Robust, reliable, and sophisticated connectivity from the network edge to the network core
- Transmit data over copper cables, fiber optics, and wireless connections
- Flexible access to network status via multiple industrial protocols

Compact Edge Controller



- PC-based integrated solution for easy development
- Supports real-time dual fieldbus data acquisition (PROFINET and EtherCAT)

Modular IPC



- Comprises compact modularized systems
- Diverse selection of CPUs, flexible I/O expansion, and slot expansion for various applications

Intelligent System



- High performance fan-based system for motion and vision application
- Diverse selection for form factors

Server and Storage



- Xeon[®] Scalable processor for high performance computing
- CPU/GPU hybrid technology for image analytic applications
- Supreme server DTOS for optimal customization

Intelligent Transportation Systems

From railways to roads, airports to harbors, the endless streams of vehicles, passengers, and cargo vessels create difficulties and challenges for transportation infrastructure planning by city authorities and traffic operators. With decades of experiences and an impressive portfolio of successful applications, Advantech offers a comprehensive range of solutions and in-depth industry know-how to help our partners and customers build effective transportation systems around the world.



Rolling Stock Controllers



ITA-5000 SeriesEN 50155 product for railway applications

Rugged-design Platforms



ITA-2000 Series • Flexible configuration design for multiple COM, CAN, LAN

AFC Controllers

3



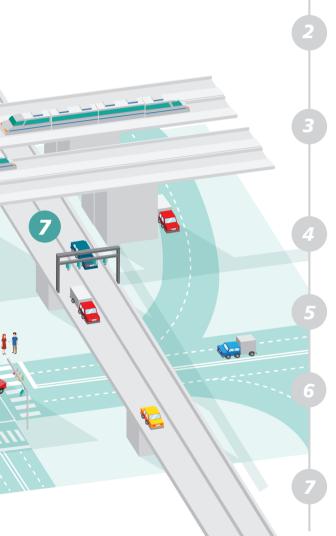
 ITA-1000 Series
 Flexible configuration design for multiple COM, secondary display output

Rolling Stock Display Systems

6



ARS-P Series/ITA-7000 • EN 50155 panel PC



Rolling Stock Solutions

- Passenger information system
- CCTV system
- Infotainment system
- Vehicle monitoring system
- Train-to-Ground communication system

Wayside Control Solutions

- Wayside signaling
- Interlocking system
- Train control system

Integrated Supervisory Control Systems

- Building automation system
- Fire alarm system
- Passenger information system
- CCTV system

Automatic Fare Collection Solutions

- Automatic gate machine
- Ticket vending machine

Intelligent Video Analytics Solutions

- AI Traffic surveillance System
- License plate recognition system

Traffic Management Solutions

- Signal control management
- Road condition monitoring
- Emergency system

Highway Management Solutions

- Electronic toll collection system
- Bridge & tunnel monitoring
- Traffic flow control & analysis

Panel Controllers



ITA-8000 Series
 EN 50155 driver machine interface

Railway Ethernet Solutions



• EN 50155 switches



Roadway Ethernet Solutions

EKI-7700 & IMC SeriesRoadway Ethernet switches and media converters

Wireless Solutions



• Transportation wireless communications

Cloud-enabled Energy & Environment Solutions

Nowadays, energy and environment practices have evolved to remote management using cloud services. To accelerate the time-to-market, Advantech develops industrial application(I.Apps) based on our integrated solutions and domain experience. With IoT technologies, equipment builders can easily connect operating data to the cloud. By integrating industry application into vertical market's domain applications, SIs enjoy the benefits of smart remote management, operations, and maintenance.

Product Solutions

Industry Focused Apps



Field Site Solar Power Management System

 Real-time monitoring with visualized alarm management and intelligent power generation analysis



Distributed Solar Power Operation and Maintenance Management System

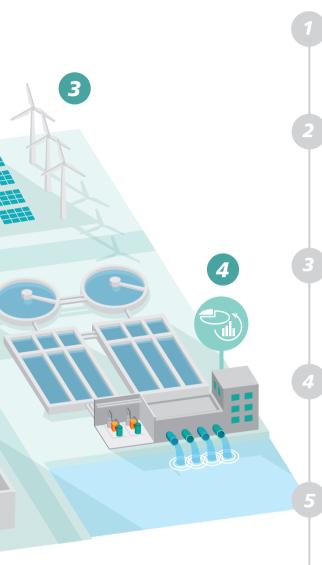
 Decentralized control and centralized management for real-time monitoring of station equipment



Centralized Solar Power Operation and Maintenance Management System

 Centralized operation of unmanned remote sites to optimize power station efficiency

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Planning and Scheduling Optimiaztion

- Optimize and increase overall equipment effectiveness (OEE)
- Make the most of equipment usage and help schedule planning

Real-Time Monitoring and Control

- Realize operation status monitoring and remote control
- Continuous data uploads to cloud service or government office to meet regulations
- Automatically send trends, timings and partial/standard alarms in real-time

Fault Detection and Predictive Maintenance

- Operation status monitoring
- Receive alarms when exceptions occur for proactive action before equipment damage

Asset Management

- Key equipment such as motor and pump maintenance to prevent asset from damage or lost
- Equipment life cycle management

Operation and Energy Management

- Reduce cost and increase capacity by monitoring power consumption of machines and production lines
- Reduce electricity bills by monitoring peak/off-peak energy consumption

Industry Focused Apps



Water Management Solution

 Cloud-enabled remote equipment management for water and wastewater



 Water Blower Management
 Remote monitoring and centralized management for water blower



Distributed Equipment Management

 Remote monitoring and centralized management for distributed equipment



Smart Substation Solution • Improving power quality and reliability with realtime monitoring and operating management