Intelligent Transportation System Solutions

Rugged Design with Industry-Proven Success

- Front-end Automatic Service
- ETC Solution
- Railway Signaling
- Rolling Stock
- Station Management

ADVANTECH
Enabling an Intelligent Planet

www.advantech.com
About Advantech

Advantech: Partnering for Smart City & IoT Solutions

Founded in 1983, Advantech is a leader in providing trusted innovative embedded and automation products and solutions. Advantech offers comprehensive system integration, hardware, software, customer-centric design services, and global logistics support; all backed by industry-leading front and back office e-business solutions. Advantech has always been an innovator in the development and manufacture of high-quality, high-performance computing platforms. We cooperate closely with our partners to help provide complete solutions for a wide array of applications across a diverse range of industries. To realize our corporate vision of Enabling an Intelligent Planet, Advantech will continue collaborating and partnering for smart city and IoT solutions.

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, recognized Advantech as one of the Top 20 Taiwanese Global Brands for many years. 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.

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
- EICC Conflict Minerals Declaration

Timely Support at Your Convenience

Advantech has over 20 regional hotlines and offices throughout 94 cities, in 23 countries with over 8,000 employees to provide efficient, professional services for customer care, product selection, technical support, and order handling. Through our call centers and online stores, customers worldwide enjoy the convenience of Advantech’s multi-service channels to reduce business turnaround time. Together with the four customer service centers in Taiwan, China, Europe and the United States, our global service network offers an extensive spectrum of services that includes warehousing, logistics, peripheral certification, sourcing & purchasing, and RMA & value-added services, and technical support & training.
Advantech Corporate Structure and Growth Engines

In response to Smart City and Industry 4.0 trends, Advantech has established three business groups, namely Embedded Design-In, Industrial-IoT, and Smart City Solutions. These three are aligned to three target markets: Embedded Design-In serves Industrial Equipment Manufacturers (IEMs), and is equivalent to Advantech’s central kitchen. Industrial-IoT serves Industry 4.0 and IoT-related industries, and Smart City Solutions serves smart city solution providers in various fields.

In order to cater to market trends, Advantech has undergone significant transformations, from products to solutions, from regional to global consolidation, and has also implemented vertical-market oriented (sector-lead) concepts in an effort to optimize operations and enhance resource-integration benefits.
Intelligent Transportation Systems

Total Solutions Delivery for Railway infrastructure Systems

Advantech working in cooperation with its partners has long provided reliable platform solutions that pave the way for intelligent transportation in cities around the globe. With a decade of successful experience, Advantech has dedicated resources to designing and developing new products designed for the transportation industry. These products support railway automatic fare collection, wayside, rolling stock, traffic management and more. Our mission is to enable intelligent transportation systems, which also helps us fulfill our vision of creating and delivering smart city technologies.
Advantech Proven Success in Transportation

Our Glory Global Footprint

Whether it’s AFC, CTC, ETC or any number of other transportation system applications, for the past few years, Advantech is dedicated in its efforts to provide the most stable, intelligent transportation systems to cities around the world. We are specialized in technical know-how and equipped with the domains to build transportation systems on the basis of discrepant needs of various applications. With decades of experiences, our product offerings toward the market of transportation have been more well-founded and completed now. Today, our efforts have been paid off. We have an impressive portfolio of successful case stories that we are proud to share with you. Advantech is and will always be by your side, continuously delivering total solution packages to our partners and customers around the world.
Automatic Fare Collection System (AFC) is one of basic station equipment that consists of automatic gate machine, ticket vending machine and ticket checking machine. In this application, stable and integrated platforms are necessarily to keep passenger flow run smoothly at peak hours; at the same time, all data will be gathered and transmitted into center. Advantech front-end solutions are our offering that designed for this scenario.
Viewable Unmanaged Switch
- Communicates with SCADA software via Modbus/TCP
- Easy maintenance and trouble shooting

AGM Controller
- Turnkey System in Compact Size with Comprehensive I/O
- High reliability with wide operation temperature

TVM Controller
- Flexible with Multiple Serial Ports
- Easy Maintenance Design for Front-End Service Integration
WISE-PaaS/RMM applied on Front-end Automatic Service

Automatic machines become an essential part in modern transportation service. Automatic gate machines and ticket vending machines are indispensable in mass traffic, playing an indispensable role as automatic fare collection (AFC). In addition to AFC, other automatic service devices are also widely implemented, such as check-in machines in airports, intelligent lockers in public area or even token kiosks in parking solution. These automatic services have smoothly help and ease human daily life. Advantech IoT device management platform-WebAccess/RMM focuses on remote device management and monitoring. From automatic service perspective, operators can be benefited from simplifying complexity of architecture, reducing construction time and resource, raising system reliability and minimizing maintenance cost. WebAccess/RMM provides a ready-to-use software platform to manage unmanned devices in a simple yet powerful way, increasing efficiency and reducing total cost of ownership.

Key Features

- Device and Power Management
  - Quick access to remote device: diagnostics and troubleshooting
  - Sets the power on/off schedule
- Centralized and Remote Management
  - Easily set up multiple devices by a management console
  - Easy to maintain and update hard-to-reach devices
  - Sends alarm notification automatically via eMail or SMS
- Protection Management
  - Powered by McAfee Application Control technology
  - Dynamic whitelisting model to block unauthorized apps
  - No continuous updating required
  - Nearly zero performance overhead
- Backup & Recovery
  - Powered by Acronis Backup and Recovery technology
  - Regular automated backup with dynamic scheduling
  - Hot backup without interrupting current tasks
**ITA-1611**

Intel® Celeron™ J1900 Compact System Dual Gigabit Ethernet LAN and Dual Display

- Fanless, Intel® Celeron™ J1900, 2.0 GHz Quad Core Compact System
- Onboard 4G DDR3 Memory and optional NVRAM
- Supports up to 2 x LAN, 6 x USB, 6 x COM ports
- Supports 1 x USB 3.0 port

**ITA-1611U**

Intel® Celeron™ J1900 Compact System Multiple COM Ports and USB Ports

- Fanless, Intel® Celeron™ J1900, 2.0 GHz Quad Core Compact System
- Onboard 4G DDR3 Memory and optional NVRAM
- Supports up to 2 x LAN, 6 x COM ports
- Supports 11 USB ports

**ITA-1711**

Intel® Celeron™ J1900 Compact System Dual Gigabit Ethernet LAN and Dual Display

- Fanless, Intel® Celeron™ J1900, 2.0 GHz Quad Core Compact System
- Onboard 4G DDR3 Memory and optional NVRAM
- Supports up to 2 x LAN, 6 x USB, 14 x COM ports
- Supports 1 x USB 3.0 port

**AIMC-2000**

Front Access Fan-less Micro Computer, Intel® Celeron® Quad Core J1900/N2807 SoC with VGA/HDMI, 6 COMs, 8 USBs

- Intel® Baytrail Platform Intel® Celeron® Quad Core J1900/N2807 SoC
- Fanless Design
- Compact & Rich I/O Configuration
- One internal 2.5” SATA HDD bay & one mSATA slot for storage

**EKI-5525**

5-port Fast Ethernet ProView Switch

- Communicates with SCADA software via Modbus/TCP
- Communicates with NMS (Networking management system) via SNMP
- Port-based QoS for deterministic data transmission
- 8.4~52.8 V DC wide-range power input

**EKI-7428G-4CPI**

24G+4G Combo port L2 Managed Switch

- 24 x IEEE 802.3 at/at PoE Gigabit ports + 4 x Gigabit Copper/SFP combo ports, provide up to 30Watts per port
- Management: SNMP v1/v2c/v3, WEB, Telnet, Standard MIB
- IXM function enables fast deployment

**DS-270**

OPS Intel Celeron J1900 Quad-Core SoC with Advanced NVIDIA GeForce GT730M Graphics up to 4K resolution

- Intel® Celeron® J1900 low power Quad-Core™ SoC platform
- Integrated NVIDIA GeForce GT 730M graphic module for UHD/FHD playback
Advantech offers various ruggedized products that target for on-road application. With the trend of urbanization, the numbers of vehicles on the road are increasing which indicates the need of road surveillance in city is mushrooming to keep the city safe 24/7. Advantech fanless controller, with the feature of high performance and wide operating temperature, they will be the best offerings for traffic management system.
Outdoor Bullet IP Camera
VIVOTEK IP8365EH is a professional outdoor bullet network camera offering 30 fps @ 2-Megapixel resolution with superb image quality.

Rugged ETC Controller
- Support Wide Operating Temperature to Utilize in Outdoor Environment
- Expansion capability to meet ETC various solution

PoE Management Communication Systems
- Support PoE power output for IP cameras
- Redundancy to ensure system and communication reliable
WebAccess/IVS applied on ETC Solution

Intelligent Video Software Services

Advantech WebAccess/IVS establishes Intelligent Video Transportation Solution, providing innovative services to traffic management by involving urban surveillance and intelligent video analysis technology. Advantech offers 2 ARP(Application ready Package) - TrafficAccess VDS and TrafficAccess IDS to collect traffic information and identify incidents automatically.

Key Features

- Video surveillance management
  - Real time monitoring & recording
  - Play back & manual backup
  - Flexible data search
- Intelligent video analytics
  - Dwell time
  - Camera Tamper
  - Optical self diagnostic
- Easy to be integrated by SDK & API
- Traffic incident detection
  - Pedestrian detection
  - Fallen object detection
  - Wrong-way drivers detection
  - Vehicles changing lane detection
- Traffic flow data collection
  - Average speed detection
  - Vehicle flow detection
**ITC Solution**

**Intel® 6th Generation Core i Processor Compact Fanless System**
- Intel® 6th Generation Core i7/i5/i3 BGA type CPU with Intel QM170 PCH
- I-Module expansion module
- VGA & DVI Interface
- 1 x 2.5" HDD/1 x CFast slot/1 x mSATA

**MIC-7500 with i-Module**
 Intel 6th Generation Core i Processor Compact Fanless System
- Intel 6th Generation Core i7/i5/i3 BGA type CPU with Intel QM170 PCH
- I-Module expansion module
- VGA & DVI Interface
- 1 x 2.5" HDD/1 x CFast slot/1 x mSATA

**ASR-3100**
1U Rackmount dual Intel® Xeon® E5-2600 v3/v4 NVMe Storage Server
- Dual LGA 2011-R3 Intel® Xeon® E5-2600 v3/V4 processors
- 16x DDR4-2133 RDIMMs for a maximum of 512 GB
- Supports up to 16x hot-swappable 2.5” NVMe/SAS/SATA drives
- Intelligent Platform Management Interface (IPMI) support

**DVP-7030E**
4-ch H.264/MPEG-4 PCI Video Capture Card with SDK
- Compatible with Windows 8.1
- 4-channel composite video inputs with H.264/MPEG4 software compression
- 120/100 fps (NTSC/PAL) at full D1 resolution for recording and display
- Free bundled recording & CMS software

**IP8365EH**
Bullet Network Camera
- 2-Megapixel CMOS Sensor
- 30 fps @ 1920x1080
- Motorized P-iris Lens
- Removable IR-cut Filter for Day & Night Function

**EKI-7712G-4FPI**
8G+4SFP Port Gigabit Managed Redundant Industrial PoE Switch
- 8 x IEEE 802.3 af/at PoE Gigabit ports + 4 SFP ports
- SFP socket for Easy and Flexible Fiber Expansion
- Redundancy: X-Ring Pro (ultra high-speed recovery time < 20 ms), RSTP/STP (802.1w/1D)
- IXM function enables fast deployment

**EKI-1528-DR**
8-port RS-232/422/485 Serial Device Server
- Provides 2 x 10/100 Mbps Ethernet ports for LAN redundancy
- Provides COM port redirection (Virtual COM), TCP and UDP operation modes
- Supports up to 921.6 kbps, and any baud rate setting
- Allows a max. of 5 hosts to access one serial port
Advantech wayside solution, including ITA-2000 Series are 3U CPCI, are designed and functioned as front-end processor for railway signaling. With compliance with EN 50121-4, they are the most suitable for wayside applications, including interlocking, Automatic Train Control (ATC), railway signage and others. With EN 50121-4 compliance and development of rock solid Advantech systems and platforms, applications in wayside control are precisely monitored, delivering a more secure railway operating environment.
• PICMG open standard, ultimate flexibility and reliability

• Blade type with high density, easy to scale out and maintenance

• Compact Dimension and redundant system support

Performing Serial devices to Ethernet connection

• Seamless communication between serial signal to Ethernet

• Feature two independent Ethernet ports to guarantee Ethernet network reliability

3U CPCI

• PICMG open standard, ultimate flexibility and reliability

• Blade type with high density, easy to scale out and maintenance

• Compact Dimension and redundant system support

Railway Signaling communication

• High port communication with wide temperature

• EN 50121-4 certificate for wayside, NEMA TS2 certificate for traffic control.
WebAccess/SCADA applied on Railway Signaling solution

SCADA Solution

Cloud-based WebAccess is a 100% web-based HMI and SCADA software with private cloud software architecture and public cloud architecture, aiming at providing centralized big data for operators to configure, change/update or monitor their equipment, projects and systems all over the world. The SCADA system will evolve from overall control and monitoring of traction power facilities, signals, station platform CCTV, ticket vending machines intrusion and fault alarms, passenger information systems and security systems and big data analysis with Cloud-based WebAccess.

Key Features

- Integration with Google Map
  - Integrates real-time data with Google Maps
  - Integrates with GPS modules to track the location
- Cloud-based WebAccess
  - Cloud Dashboard
  - WebAccess Portal (Node-RED)
  - Cloud-based Super SCADA & Multi-Projects
  - Auto Discover & Configuration
  - Restful API & MQTT
- HTML5 Dashboard
  - Dashboard Editor & Viewer
  - Widget Library & Widget Builder
  - Easy Configuration
  - Cross Browser & Devices Viewing
- Support Open Interface
  - RESTful API
  - SignalR
**ITA-2231**

Intel® Core™ i7 Fanless 2U Rackmount System with 3 ITAM Module
- Built-in Intel® Core™ i7-6822EQ, 2.8 GHz CPU
- Onboard 16 GB DDR4 Memory
- 2U Fanless Rackmount System
- Support 3 ITAM Module for I/O expansion

**ITA-EM modules**

Compliance with railway applications (EN50121-4)
- 8-Port RS-232/422/485 Serial Port Module
- 8-Port RJ45 GbE Module
- 4-Port RJ45 GbE Module
- 4-Port SFP Module, 4-Port, Dual GbE, Dual CAN Module

**3U CPCI modules**

- MIC-3328
  3U CompactPCI PlusIO Intel® 3rd Generation Core™ Processor Blade
- MIC-3329
  3U CompactPCI Intel® Quad-Core Atom™ SoC Processor Blade
- MIC-3958
  3U CompactPCI® 4 RJ45 Port Gigabit Ethernet Card
- MIC-3955
  3U CompactPCI® 4-port RS-232/422/485 Communication Card

**EKI-7428G-4CI**

24G+4G Combo port L2 Managed Switch
- SFP socket for Easy and Flexible Fiber Expansion
- Management: SNMP v1/v2c/v3, WEB, Telnet, Standard MIB
- IXM function enables fast deployment
- Security: 802.1x (Port-Based, MD5/TLS/TTLS/PEAP Encryption), HTTPS, SSH and SNMPv3

**EKI-7710E-2CPI**

8FE+2G Port Gigabit Managed Redundant Industrial PoE+ Switch
- 8x IEEE 802.3 af/at PoE Fast Ethernet ports + 2 Gigabit Copper/SFP combo ports
- SFP socket for Easy and Flexible Fiber Expansion
- Redundancy: Gigabit X-Ring Pro (ultra high-speed recovery time < 20 ms), RSTP/STP (802.1w/1D)

**EKI-1524**

4-port RS-232/422/485 Serial Device Server
- Provides 2 x 10/100 Mbps Ethernet ports for LAN redundancy
- Provides COM port redirection (Virtual COM), TCP and UDP operation modes
- Supports up to 921.6 kbps, and any baud rate setting
- Allows a max. of 5 hosts to access one serial port

**EKI-2741SX**

10/100/1000T (X) to Fiber Optic Gigabit Industrial Media Converters
- Provides 1 x 1000 Mbps Ethernet port with RJ45 connector
- Provides 1 x 1000 Mbps fiber port with SC or SFP (mini-GBIC) type connector for 1000Base-SX/LX device
- Provides DIP switch for full/half duplex setting
Advantech provides diverse product lines towards rolling stock solution. From cameras, switches to controllers, all specifically cater to rolling stock applications, including Ethernet Train Network, Passenger Information System (PIS), CCTV system and Vehicle Monitoring System. Advantech in-train products are compliant with the EN 50155, EN50121-3-2, and EN 50121-4 railway standards, which enable products to withstand high levels of vibration and enhance operating resistance for railway scenario.
Rolling Stock Passenger Information System (PIS)

Vehicle Monitoring System

Ethernet Train Network
- EN 50155 16-port Train communication network (TCN) Managed Ethernet with PoE/PoE+
- IEEE 802.3af/802.3at per port with system PoE power management

Communication/NVR Controller
- Compact Size Design for Ease Integration in Limited Space
- Fully EN 50155 Certified
- Flexible configuration with PoE Module

High Capacity Server
- Diverse Function EN50155 On-board Server: content& video and Monitoring Management Purpose
- Configurable Design, Modules including PoE, COM, CAN, Battery, Storage etc.
Digital signage in transportation applies in wide range of applications, such as arrival/departure information, live news, weather feed, or even the advertisement promotions. Digital signage can enhance the travel experience. Advantech Digital Signage Software-WebAccess/IMM possesses dynamic and visual broadcasting content, enabling engaging audience more with visual and interactive effects. Besides, WebAccess/IMM applied in public transportation allows station manager easily to manage the broadcasting content remotely with few steps and provide real time updates. Advantech Digital Signage Software-WebAccess/IMM offers a web-based architecture where users can layout, schedule and dispatch signage content via the internet, up to 500 displays on the remote ends.

**Key Features**

- **Server-Client Architecture**
  - Remote editing and dispatch programs up to 500 clients
  - Remote power on/off. Easily for station manager to control
- **User-friendly Interface**
  - Visualization interface
  - Drag and drop operation
  - Quick finish signage dispatch with 3 steps
- **Media Format**
  - TV/Webpage/Flash/PPT/Scrolling Text
  - Image: JPG/GIF/BMP/PNG
  - Video/Audio: MPEG/AVI/WMV/WMA/MP3/FLV
- **System Backup and Restoration**
  - Backup multimedia files
  - Backup system setting and program data
  - Restore all setting and data by one-click
ITA-5831
Intel® 6th Generation Core™ I Processor Fanless System
• EN 50155 Certified Product for Railway Applications
• Intel skylake-H platform with QM170
• Fanless computer for railway vehicle applications, fully compliant with EN 50155
• Satisfy temp. standard: EN 50155 TX (-40 ~ 70° C) and IEC 61373 body mount class B

ITA-5231
Intel® 6th Generation Core™ I Processor Fanless System
• EN 50155 Certified Product for Railway Applications
• Intel skylake-H platform with QM170
• Fanless computer for railway vehicle applications, fully compliant with EN 50155
• Satisfy temp. standard: EN 50155 TX (-40 ~ 70° C) and IEC 61373 body mount class B

TPC-8100TR
10.4” EN50155 Railway Panel Computer
• 10.4” SVGA 800x600 with 400 nits LED LCD display
• Dual core 1.6 GHz processor and 5H Hardness resistive touch
• Fanless and all around IP65 with waterproof M12 connector
• Alternative keypad control in front bezel

DSD-5038
38” stretched display, 16 : 4.5
• 38” High Resolution Stretched Display (1920 x 538) with LED backlight
• Ultra wide viewing angle (176/176)
• Dynamic contrast adjustment
• Super color tone function
• VGA and DVI compliant with HDMI converter cable( optional)

EKI-9512-ETB
EN 50155 12-port ETB Managed Ethernet Switch
• Complies with EN50155 and EN45545-2
• All 10/100 Mbps connections support dual ring protection and non-blocking traffic forwarding
• 8x M12 Fast Ethernet ports and 4 x M12 Fast Ethernet ports with bypass relay
• X-Ring Pro supports rapid and predictable convergence

EKI-9516P
EN 50155 16-port Full Gigabit Managed Ethernet Switch with PoE/PoE+
• Complies with EN50155 and EN45545-2
• All Gigabit connections support dual ring protection and non-blocking traffic forwarding
• 12 x M12 Gigabit ports and 4 x M12 Gigabit ports with bypass relay function
• X-Ring Pro supports rapid and predictable convergence

MD8562
Mobile Dome Network Camera
• 2-megapixel CMOS Sensor
• Up to 30 fps @ 1080p Full HD
• Wide Angle Fixed Lens
• EN50155 Co-megapixelliness for Professional Mobile Surveillance
Station Management is an integrated platform that consists of Integrated Supervisory Control System (ISCS), Fire alarm system (FAS), Building Automation System (BAS) and others. Station Management System, due to its complicated systems, requires stable and scalable hardware to keep it well-functioned 24/7. Advantech’s industrial and server-grade systems are well-known for ruggedized features and wide expansion which play indispensable roles in this specific application.
Fanless Rugged IPC
- High availability with redundant PSUs
- Flexible Configuration Design for Multiple COM, CAN, LAN etc.

Surveillance Storage Server
- High-Density Disk Array solution for mission-critical Service with zero down Time

Center Communication System
- High ports Layer 3 managed switch
- Reliable and efficient network management.
WebAccess/NMS applied on Station Management Solution

Advantech WebAccess/NMS is a web browser-based software package for networking management system (NMS). WebAccess/NMS can integrate the Google Map and show the exactly location of networking device. WebAccess/NMS can show the PoE link and status on IP camera, X-Ring topology and routing path. User can use remote configuration to access and control the switch, IP-based platforms and third-parties’ devices. WebAccess/NMS can replay the historical trap or event benefits the trouble shooting to identify the root cause and issue type accurately.

Key Features

- Integration with real-time MAP
  - Integrates real-time data with Google Maps and OpenStreetMap
  - Integrates with GPS location to track the location
- Automatic topology view and logical view
  - Integrates with IGMP
- Centralized configuration and Firmware Management
  - Scheduling for periodic configuration backup and firmware upgrade
  - Trace configuration of history changes
- Cloud-based WebAccess
  - Restful API
  - HTML5 Web-base portal
- Easy for troubles shooting
  - Alarm/event Playback
  - Historical trap
- Can manage comprehensive devices, not only network devices
  - SNMP & Modbus for device management
  - Advantech IP-base devices
HPC-7400
4U Compact Rackmount / Tower Chassis for EATX/ATX Motherboard
- 4U compact industrial server chassis suitable for space-sensitive applications
- Supports EATX/ATX/MicroATX motherboard
- Shock-resistant 2 x 5.25” (front) + 2 x 3.5” int (rear) and optional 2 x 3.5” int. HDD bays
- Supports 80plus 1U single and 1+1 redundant higher watt power supply

ASR-5300I
3U 16-bay IP-SAN Storage with Reinforced Reliability for Surveillance
- Single Controller Configuration
- 3U16 (LFF) Short-Depth Form-Factor
- Built-in 4 x iSCSI 1Gb/s Host Interface
- Default 2GB Cache, Support up to 16GB

AVS-840
4U Intel® Xeon® E3-1200V2 Video Wall Controller, Supporting 40-output Video Wall
- Validated by Matrox
- Support Mura Cards: 10 standard Mura MPX
- Maximum Video Input: 40 Analog/Digital
- Maximum Video Output: 40 Analog/Digital

EKI-9428G
Ind. Rackmount L3 Managed Switch
- 16 x Gigabit RJ-45 ports + 4 Gigabit x SFP ports + 8 x Gigabit Combo ports
- L3 Funtion: Static Route, VRRP, OSPF, RIP V1/V2, PIM-DM
- SFP socket for Easy and Flexible Fiber Expansion
- Management: SNMP v1/v2c/v3, WEB, Telnet, Standard MIB

ITA-2211
Intel® Atom™ E3845 2U Fanless Rackmount System with 3 ITAM Module
- Built-in Intel® Atom™ E3845, 1.91 GHz CPU
- Onboard 4GB DDR3 Memory
- 2U Fanless Rackmount System
- Support 3 ITAM Module for I/O Expansion

EKI-1526
16-port RS-232/422/485 Serial Device Server
- 16-port RS-232/422/485 serial communication
- Provides 2 x 10/100 Mbps Ethernet ports for LAN redundancy
- Supports up to 921.6 kbps, and any baud rate setting
- Provides COM port redirection (Virtual COM), TCP and UDP operation modes

APAX-5580
Intel® Core™ i7/i3/Celeron DIN-Rail IPC w/ 2 x GbE, 2 x mPCIe, VGA
- Supports Fieldbus Protocol by iDoor Technology
- 3G/GPS/GPRS/Wi-Fi Communication by mPCIe
- One button system recovery
- Dual power input and UPS support
- Compact with Fanless Design
Advantech Online Sales Force

Enabling an Intelligent Planet

To provide fast and convenient services to our customers and users, Advantech provides several easily-accessible web portals including: the Advantech.com website, Buy.Advantech.com, and an Online Support Portal to serve different requirements. To supplement our electronic contacts, we’ve also built up regional call centers to take care of customers who prefer human contact. These methods allow us to deliver our services by live chat, phone line and email anytime and anywhere.

40 Teams in 27 Cities Serve Global Inquiries
Advantech.com Website

Through www.advantech.com, we not only offer comprehensive products, but also real-time updated information to our customers. In addition to product information, you also can find case studies of proven applications from diverse sectors. Furthermore, registered MyAdvantech members can access the RMA service center, updated price lists, and various promotion programs.

Online Store

**Buy.Advantech.com**

To extend Advantech’s services, we launched the Buy.Advantech online store which offers one-stop shopping for Human Machine Interfaces, Industrial Ethernet networking, Controller & I/O products, plus computing platforms. This eStore offers comprehensive product information to build systems easily, with live expert support to solve problems, online configuration providing easy system customization options, instant quotations, an extensive library of FAQs and all the latest up-to-date downloads and firmware.

Online Support

Providing superior self-support mechanisms is one of the most essential parts of being a top-tier automation company, and we take pride in the outstanding level of service that we offer. To best support our customers, we’ve created a suite of useful interactive online tools, including:

- Technical Documents: Manuals, datasheets, updated drivers and utilities—all available for download through the support portal.
- 3D Product Models: Simulated products in 3D format to provide detailed visualizations for evaluation.
- Online Training: Self-training documents and videos to provide trainees with integrated information.
- Online Catalog: A comprehensive online catalog with extensive product information.

24/7 Online Service

To effectively respond to customers’ questions, our regional call centers support inquiries about purchasing, shipping, technical, RMA issues and more. Contact your regional call center to get the support you need today.

**Global Hotlines**

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<td>US/Canada</td>
<td>1-888-576-9668</td>
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<td>Mexico</td>
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<td>Malaysia (Penang)</td>
<td>60-4-537-9188</td>
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Advantech iPlanet Care

Manufacturing

Our dual, world-class manufacturing centers in Taiwan and China maintain precise quality control, and offer a full range of production in a timely and cost-effective manner. To maximize the efficiency of operational procedures, 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.

Configure To Order Services

Advantech’s Configure To Order Services (CTOS) makes industrial computing solutions more accessible by offering web-based configuration tools, comprehensive, complex assembly services with high-mix, low-volume box build and customized assembly, modification, system integration and functional testing services.

Certified Quality Assurance System

Advantech has been designing and manufacturing industrial PCs according to our 3C Quality Statement:

- Always strive for overall customer satisfaction
- Continuous improvement

At Advantech, quality is our main priority. A complete line of safety, EMC and reliability measures such as ESD, vibration, drop testing, temperature, humidity and HALT chambers are available to ensure our products meet the strictest standards. All facilities are at least ISO 9001 and 14001 certified while others hold additional certifications such as ISO 13485, 17025, TL9000 and OHSAS18001. An environmental program that focuses on reducing, reusing and recycling of materials throughout the manufacturing process is also applied at Advantech. All our products are 100% RoHS compliant and Environmental Management Systems such as QC080000 are applied to meet worldwide environmental requests. Advantech’s efforts towards environmental protection have been recognized by Sony since 2004 (Sony Green Partner).
One-Stop Global Services

Advantech iPlanet Care combines exceptional business expertise, powerful design capacities, and a thorough global service network to provide one-stop global services and total solutions. Our broad range of global support packages adds maximum flexibility and efficiency to your projects.

Global Logistics Services

With strong integrated ERP and SAP supply chain solutions, our worldwide 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. Advantech’s Logistics Service gives you the flexibility to simplify your logistical networks, bring your products to market on time, and enjoy a timely return on your investment.

- Optimized and flexible shipping solutions
- Integrated ERP and SAP supply chain solution with global distribution network
- Centralized plants with local delivery

Global Peripheral Procurement Services

Advantech global peripheral procurement network consists of local teams that leverage strong, worldwide supplier relationships and strict vendor and product management to offer quality-guaranteed, compatible peripherals with short lead times and competitive prices.

- Localized procurement with worldwide network support
- Global standardization management; 100% compatible peripherals
- Trusted quality with revision control
- Short lead time and competitive price

Global Customer Support Services

Our global presence provides localized reliable customer support services. We can create an optimized maintenance and support plan, leveraging the full power of our service portfolio to help reduce costs and proactively mitigate business risks to best meet your needs. In addition to our complete technical and repair support, we provide a variety of customizable after-sales services, including extended warranty, advance replacement, upgrade, fast repair, etc. With our knowledgeable local support groups, we enable a consistent support experience around the world and help keep your investment at peak performance and within your budget.

- 24/7 technical support: hotline AE & online chat support
- Global deployment with local full-line repair capability
- Easy-to-use web-based repair and tracking system (eRMA)
- Various value-added, after-sales service packages
Global Access, Local Support

Regional Service & Customization Centers

China
- Kunshan: 86-512-5777-5666
- Taiwan: Taipei 886-2-2792-7818

Netherlands
- Eindhoven: 31-40-267-7000

Poland
- Warsaw: 00800-2426-8080

USA
- Milpitas, CA: 1-408-519-3898

Greater China
- China Toll Free: 800-810-0345
- Beijing: 86-10-6298-4346
- Shanghai: 86-21-3632-1616
- Shenzhen: 86-755-8212-4222
- Chengdu: 86-28-8545-0198
- Hong Kong: 852-2901-8300

Taiwan
- Toll Free: 0800-777-111
- Taipei: 886-2-2792-7818
- Neihu: 886-2-2218-4567
- Xindian: 886-2-2329-0371
- Taichung: 886-4-2218-4567
- Kaohsiung: 886-7-229-3600

Worldwide Offices

Asia Pacific
- Japan
  - Toll Free: 0800-500-1055
  - Tokyo: 81-3-6802-1021
  - Osaka: 81-6-6267-1887
  - Nagoya: 81-52-856-9657
- Korea
  - Toll Free: 080-363-9494
  - Seoul: 82-2-3663-9494
- Singapore
  - Toll Free: 65-6442-1000
- Malaysia
  - Kuala Lumpur: 60-3-7725-4188
  - Penang: 60-4-537-9188
- Thailand
  - Bangkok: 66-2-248-3140
- India
  - Bangalore: 91-80-2545-0206
  - Pune: 91-20-3948-2075
- Indonesia
  - Jakarta: 62-21-751-1939
- Australia
  - Toll Free: 1300-308-531
  - Melbourne: 61-3-9797-0100

Europe
- Germany
  - Toll Free: 00800-2426-8080/81
  - Munich: 49-89-12599-0
  - Düsseldorf: 49-2103-87-855-0
- France
  - Paris: 33-1-4119-4666
- Italy
  - Milano: 39-02-9544-961
- Benelux & Nordics
  - Breda: 31-76-523-3100
- UK
  - Newcastle: 44-0-191-262-4844
  - London: 44-0-870-493-1433
- Poland
  - Warsaw: 48-22-31-51-100
- Russia
  - Moscow: 8-800-555-01-50
  - St. Petersburg: 8-800-555-81-20
- Czech Republic
  - Ostrava: 420-465-521-020
- Ireland
  - Oranmore: 353-91-792444

Americas
- North America
  - Toll Free: 1-888-576-9668
  - Cincinnati: 1-513-742-8895
  - Milpitas: 1-408-519-3898
  - Irvine: 1-949-420-2500
  - Ottawa: 1-815-434-8731
- Brazil
  - Toll Free: 0800-770-5355
  - São Paulo: 55-11-5592-5355
- Mexico
  - Toll Free: 1-800-467-2415
  - Mexico City: 52-55-8275-2727

Other
- Global Access, Local Support

www.advantech.com

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