Intelligent Automation, Seamless Integration

Star Product Highlights

IEC 61131
Advantech’s automation software lineup includes SCADA software, network management, remote device management, HMI runtime development software, SoftLogic programming tools, OPC Server, and other user-friendly programming tools and utilities. Advantech WebAccess web-based HMI/SCADA software is a shining example. It helps customers view, control and configure systems remotely through the Internet from any smart device. Advantech’s software and hardware solutions empower automation professionals to develop integrated automation systems efficiently.

**Star Product Highlights**

**Automation Software**

**Minimize Programming Time while Optimizing Performance**

Advantech WebAccess

- Cross-browser, cross-platform business intelligent dashboard for remote data analytic service
- Distributed SCADA architecture with central database server and multi-layer inter-operable SCADA nodes
- Google Maps and GPS location tracking integration
- Supports open interfaces - web services, widget interfaces and WebAccess APIs

Advantech WebAccess/NMS

- Visualize Device Connectivity
  - Easy device location with Google map support
  - Ethernet, WLAN, Cellular integration network topology
  - Remote configuration, monitoring and F/W upgrading
  - Supports Advantech Ethernet-based platforms and modules
  - 100% browser-based software system
  - Supports a variety of mobile devices and browsers

SUSIAccess

- Remote Device Management Software
  - Device monitoring and automatic alerts by email/SMS
  - Quick access to remote control for device diagnostics and repair
  - Complete protection from cyber threats (powered by McAfee application control technology)
  - Simple backup and recovery (powered by Acronis backup and recovery technology)

WebOP Designer/Panel Express

- HMI Runtime Development Software
  - Provides user friendly easy configuration
  - Application software function objects
  - Supports project protection, upload/download operations
  - Collects data from many devices using various methods
  - Supports over 400 industrial communication protocols

CODESYS

- IEC-61131-3 SoftLogic Control Software
  - Cross-compiling: 5 standard languages can be cross-compiled to each other
  - Real-time performance
  - Provides free IDE tool
  - Powerful debugging tools and simulation support
  - Fulfill integration with Advantech control platform

DAQNavi

- Software Development Package for Advantech DAQ Products
  - Rapid Application Design (RAD) helps developers to build a program in the shortest time
  - Thread-safety design to ensure high reliability under multi-thread environment
  - Intuitive utility Navigator integrates configuration tools, testing panel, manual, tutorial, and example codes

Advantech Data Logger

- Data Logging Application Software
  - Online and offline monitoring of acquired signal
  - Exports recorded data to .txt and .xls (Excel) for post analysis
  - Flexible display with customized plot, title, cursor and axis

OPC Server

- OPC Server for ADAM & Modbus Devices
  - Supports Microsoft Windows XP/ 2000/ 7/ 8/ 8.1
  - Supports Advantech ASCII, Modbus RTU, and Modbus/TCP protocol
  - Compliant with the latest OPC Data Access 1.0, 2.04 and 3.0 standards
  - Compliant with the latest OPC Alarm and Events 1.0 and 1.2 standards
Intelligent HMI
Leading the Evolution of Intelligent Operator and Panel PCs

As we stand on the edge of the new era of Industry 4.0, Advantech as a leading enabler of intelligent factories, will continue to innovate the next generation of HMI products and solutions for different industries. We provide an integrated and comprehensive range of HMI products including Control Panel Computers and Thin-client Panel Computers (TPC and SPC), Industrial Monitors (FPM), Web Operator Panels (WebOP), Industrial Panel PCs (IPPC) and Panel PCs (PPC) for intelligent factories, automation markets, and domain focused markets such as food and beverage, oil and gas and railway transportation.

Control Panel Computers

TPC-1881WP
18.5” WXGA TFT LED LCD Intel® Core™ i7/ i3 with PCT Multi-Touch Panel Computer
- Intel® Core™ i7-4650U/ i3-4010U with 4GB DDR3L SDRAM
- 7H Hardness Glass Surface Wide-screen with PCT Multi-touch, IP66 Front Protection and True-flat Touch Design
- Expandable System I/O, Isolated Digital I/O, Fieldbus and Communication by iDoor Technology
- Built-in ikey and Home-key for an intuitive UI
- Supports two USB 3.0 and HDMI for independent display

TPC-1581WP
15.6” HD TFT LED LCD Intel® Core™ i3 with PCT Multi-Touch Panel Computer
- Intel® Core™ i3-4010U 1.7GHz with 4GB DDR3L SDRAM
- 7H Hardness Glass Surface Wide-screen with PCT Multi-touch, IP66 Front Protection and True-flat Touch Design
- Expandable System I/O, Isolated Digital I/O, Fieldbus and Communication by iDoor Technology
- Built-in ikey and Home-key for an intuitive UI
- Supports USB 3.0 and HDMI for independent display

TPC-1582T/ 1282T
15”/ 12” XGA TFT LED LCD Intel® Core™ i3 Touch Panel Computer
- Intel® Core™ i3-4100U/ i3-4010U with 4GB DDR3L SDRAM
- More Durable 5-wire Resistive Touch Screen with IP66 Front Protection
- PCIe and mini PCIe expansion support
- Expandable System I/O, Isolated Digital I/O, Fieldbus and Communication by iDoor Technology

Thin Client Panel Computers

TPC-1751T/ 1551T/ 1251T/ 651T
17”/ 15”/ 12.1”/ 5.7” XGA TFT LED LCD Intel® Atom™ Dual-core Thin Client Panel Computer
- Intel® Atom™ Dual-core E3827 1.75 GHz processor with 4GB DDR3L SDRAM
- -20°C – 60°C Wide Operating Temperature
- IP66 Front Protection and More Durable 5-wire Resistive Touch Screen with True-flat Touch Design
- Supports Door Technology (TPC-1251T-EHKE required)

TPC-1551WP
15.6” WXGA TFT LED LCD Intel® Atom™ Dual-core Thin Client Panel Computer
- Intel® Atom™ Dual-core E3827 1.75 GHz processor with 4GB DDR3L SDRAM
- 7H Hardness Glass Surface 16:9 Widescreen with PCT Multi-touch, IP66 Front Protection and True-flat Touch Design
- Supports Door Technology (TPC-1251T-EHKE required)

TPC-1051WP
10.1” WXGA TFT LED LCD Intel® Atom™ Dual-core Thin Client Panel Computer
- Intel® Atom™ Dual-core E3827 1.75 GHz processor with 4GB DDR3L SDRAM
- 7H Hardness Glass Surface Widescreen with PCT Multi-touch, IP66 Front Protection and True-flat Touch Design
- Supports Door Technology (TPC-1251T-EHKE required)

True-flat Monitors

FPM-7211W/ 7181W/ 7151W
21.5”/ 18.5”/ 15.6” Industrial Monitor with PCT, Direct VGA+DVI ports
- 16:9 FHD/ WXGA LED backlit LCD with True-flat Seamless Design
- 7H Hardness Glass Surface with PCT Multi-touch and IP66 Front Protection
- Supports 10 points multi-touch via USB interface in Windows 7/8
- Robust design with SECC chassis and Magnesium alloy front panel

FPM-6211W
21.5” Semi-industrial Monitor with PCT for long-distance / iLink Technology
- 16:9 FHD LED backlit LCD with True-flat Seamless Design
- 7H Hardness Glass Surface with PCT Multi-touch and IP66 Front Protection
- Supports 5 points multi-touch via USB interface in Windows 7/8
- Key for OSD control and remote/local source switch
- Robust design with SECC chassis and Magnesium alloy front panel

FPM-7151T/ 7121T
15”/ 12.1” XGA TFT LED LCD
- 15”/ 12.1” XGA 50K Lifetime LED Backlight LCD with Anti-glare Screen and Tempered Glass
- IP66 Certified Front Panel Protection with True-flat Seamless Design
- -20°C – 60°C Wide Operating Temperature
- Robust Design with SECC Chassis and Aluminum Front Panel
- DP/VGA video input
- Combination RS-232 & USB Interface for Touchscreen Function

Star Product Highlights
**Web Operator Panels**

**WebOP-3120T**
12” XGA Cortex™-A8 Operator Panel with Wide Operating Temperature
- Supports iManager, SUSIAccess and Embedded
- 2 x USB, 2 x LAN, 2 x COM Ports
- GPS/GSM/Wifi/Radio optional communication module
- IP65 front BZL protection with resistive touch screen

**WebOP-3100T**
10.1” WVGA Cortex™-A8 Operator Panel with Wide Operating Temperatures
- Supports iManager, SUSIAccess and Embedded
- 2 x USB, 2 x LAN, 2 x COM Ports
- GPS/GSM/Wifi/Radio optional communication module
- IP65 front BZL protection with resistive touch screen

**WebOP-3070T**
7” WVGA Cortex™-A8 Operator Panel with Wide Operating Temperatures
- Supports iManager, SUSIAccess and Embedded
- 2 x USB, 2 x LAN, 2 x COM Ports
- GPS/GSM/Wifi/Radio optional communication module
- IP65 front BZL protection with resistive touch screen

**Entry Level Operator Panels**

**WebOP-2100T**
10.1” WVGA Cortex™-A8 Operator Panel
- 65,536 colors TFT LCD, ARM9-based CPUs
- 10W low power consumption
- Supports up to four types of devices
- Flexible runtime download and maintenance
- Built-in ikey and Home-key for an intuitive UI

**WebOP-2070T**
7” WVGA Cortex™-A8 Operator Panel
- 65,536 colors TFT LCD, ARM9-based CPUs
- 10W low power consumption
- Supports up to four types of devices
- Flexible runtime download and maintenance
- Built-in ikey and Home-key for an intuitive UI

**WebOP-2040T**
4.3” WVGA Cortex™-A8 Operator Panel
- 65,536 colors TFT LCD, ARM9-based CPUs
- 10W low power consumption
- Supports up to four types of devices
- Flexible runtime download and maintenance
- Built-in ikey and Home-key for an intuitive UI

**Stationary Panels**

**SPC-1581WP**
All around IP65 15.6” WXGA Stationary Panel with Intel® i5 Processor
- Intel® Core™ i5-4300U 1.9GHz with 4GB DDR3L SDRAM
- All around IP65 protection with M12 connector
- Built-in key and home-key for an intuitive UI
- 7H Hardness Glass Surface Widescreen with PCT Multi-touch
- 1 x RS-232/ 1 x USB/ 2 x LAN/ 24Vdc-in with M12 connector

**SPC-1840WP**
All around IP65 18.5” Stationary Panels with AMD® Dual-core Processor
- All around IP65 18.5” Stationary Panels with AMD® Dual-core Processor
- 7H Hardness Glass Surface Widescreen with PCT Multi-touch, True-flat Touch Design
- Built-in key and Home-key for an intuitive UI
- 1 x RS-232/ 1 x USB/ 2 x LAN/ 24Vdc-in with M12 connector

**SPC-2140WP**
All around IP65 21.5” Stationary Panel with AMD® Dual-core Processor
- All around IP65 21.5” Stationary Panels with AMD® Dual-core Processor
- 7H Hardness Glass Surface Widescreen with PCT Multi-touch, True-flat Touch Design
- Built-in key and Home-key for an intuitive UI
- 1 x RS-232/ 1 x USB/ 2 x LAN/ 24Vdc-in with M12 connector

**Domain-focused Computers**

**IPPC-8070WV**
7” Multifunctional HMI for transportation applications
- Intel® Atom™ 1.66GHz processor
- IP65 front B2L, protection with resistive touch screen
- GPS/GSM/Wifi/ Radio optional communication module expansions
- 2 x USB, 2 x LAN, 2 x COM Ports
- Supports Manager, SUSIAccess and Embedded Software APIs

**IPPC-5211WS**
All Around IP69K 21.5” TFT LED LCD with PCT Touch Panel and Corrosion-proof
- Intel® Celeron® Quad-core J1900 2 GHz
- All-round IP69K protection with corrosion-proof 316L stainless steel
- Sealed and rugged design with high reliable Components
- Options for Clash/ HDD

**FPM-8151H**
15” XGA TFT LED LCD Industrial Monitor with Corrosion-proof 316L Stainless Steel
- Corrosion-proof 316L Stainless Steel Front Panel
- IP65 Certified Front Panel Protection
- -20 °C ~ 60 °C Wide Operating Temperature
- More Durable 5-wire Resistive Touch Screen with Anti-glare and Tempered Glass
- Backup memory FRAM in 128KB (64 words) without battery
- Microsoft® Windows CE 6.0 with Wide Operating Temperatures
- 10.1” WSVGA Cortex™-A8 Operator Panel
- 65,536 colors TFT LCD, ARM9-based CPUs
- 10W low power consumption
- Front panel flat-sealed with IP66 compliance
- 65,536 colors TFT LCD, ARM9-based CPUs
- 10W low power consumption
- Front panel flat-sealed with IP66 compliance
- 65,536 colors TFT LCD, ARM9-based CPUs
- 10W low power consumption
- Front panel flat-sealed with IP66 compliance
- 65,536 colors TFT LCD, ARM9-based CPUs
- 10W low power consumption
- Front panel flat-sealed with IP66 compliance
- 65,536 colors TFT LCD, ARM9-based CPUs
- 10W low power consumption
- Front panel flat-sealed with IP66 compliance
Entry Level Monitors

**FPM-2170G**
17” SXGA Industrial Monitor with Resistive Touchscreen and Direct-VGA Port
- 17” SXGA TFT LCD with 50K hours LED backlight life time
- Robust design with IP65 aluminum front panel
- Anti-glare screen
- Supports Panel, Wall, Desktop, Rack or VESA arm mounting
- Combination RS-232 & USB interface for touchscreen function

**FPM-2150G**
15” XGA Industrial Monitor with Resistive Touchscreen and Direct-VGA Port
- 15” XGA TFT LCD with 50K hours LED backlight life time
- Robust design with IP65 aluminum front panel
- Anti-glare screen
- Supports Panel, Wall, Desktop, Rack or VESA arm mounting
- Combination RS-232 & USB interface for touchscreen function

**FPM-2120G**
12” SVGA Industrial Monitor with Resistive Touchscreen and Direct-VGA Port
- 12” SVGA TFT LCD with 50K hours LED backlight life time
- Robust design with IP65 aluminum front panel
- Anti-glare screen
- Supports Panel, Wall, Desktop, Rack or VESA arm mounting
- Combination RS-232 & USB interface for touchscreen function

Ruggedized and Wide-temperature Monitors

**FPM-3191G**
19” SXGA Industrial Monitor with Resistive Touchscreen, Direct-VGA and DVI Ports
- Robust design with stainless steel chassis and IP65 aluminum front panel protection
- OSD control pad on front panel
- Supports industrial 24Vc and 12Vc power input
- Supports panel, wall, desktop, rack or VESA arm mounting
- Anti-glare screen
- Robust design with IP65 aluminum front panel protection

**FPM-3171G**
17” SXGA Industrial Monitor with Resistive Touchscreen, Direct-VGA and DVI Ports
- Robust design with stainless steel chassis and IP65 aluminum front panel protection
- -20°C ~ 60°C Wide Operating Temperature
- OSD control pad on front panel
- Supports industrial 24Vc and 12Vc power input
- Supports panel, wall, desktop, rack or VESA arm mounting

**FPM-3151G**
15” XGA Industrial Monitor with Resistive Touchscreen, Direct-VGA and DVI Ports
- Robust design with stainless steel chassis and IP65 aluminum front panel protection
- -20°C ~ 60°C Wide Operating Temperature
- OSD control pad on front panel
- Supports industrial 24Vc and 12Vc power input
- Supports panel, wall, desktop, rack or VESA arm mounting

Fanless Panel PCs

**PPC-3120/3100**
12.1” XGA/10.4” SVGA Intel® Atom™ Dual-core Fanless Panel PC
- Intel® Atom™ Dual-core D2550 1.86GHz Processor with Max 4GB DDR3 SDRAM
- Fanless Design and Low Power Consumption
- 5-wire Resistive Touch Screen
- Optional PCI x1/PCIe x1 Expansion Kit
- Automatic data flow control over RS-485

**PPC-3170/3150**
17” SXGA/15” XGA Intel® Atom™ Quad-core Fanless Panel PC
- Intel® Atom™ Quad-core E3845 1.91GHz Processor with Max 8GB DDR3L SDRAM
- -20°C ~ 60°C Wide Operating Temperature
- 5-wire Resistive Touch Screen
- Built-in PCIe x1/PCIe x1 Expansion Slot
- Built-in isolated RS-422/485 with Autoflow
- Optional CF and CFast module
- Supports Panel, Wall, Desktop, Rack or VESA arm mounting

**PPC-4211W/4151W**
21.5” FHD/15.6” WXGA Intel® Core™ i5/ Celeron® with PCT Multi-Touch Wide Screen Fanless Panel PC
- Intel® Core™i5-4300U 2.9GHz/ Celeron® 2980U 1.6GHz Processor with Max 8GB DDR3L SDRAM
- Entirely flat panel with PCT touch screen
- Supports one PCIe x4/ PCI x1 Bus Expansion
- Built-in isolated RS-422/485 with Autoflow

Multi-functional Panel PCs

**PPC-6120**
12.1” XGA Intel® Core™ i5/i3/ Celeron® Panel PC
- Intel® 4th Generation Core™ i5/i3/i/ Celeron® Processor with 2x 204-pin SODIMM DDR3L DDR3L SDRAM (Max 16GB)
- Built-in isolated RS-422/485 with Autoflow, Dual Intel® GbE
- Optional PCI x1/PCIe x1 Expansion Kit
- 5-wire Resistive Touch Screen

**PPC-6170/6150**
17” SXGA/15” XGA Intel® Core™ i5/i3/ Celeron® Panel PC
- Intel® Core™ i5-3610ME/3-3120ME/Celeron® 1020E with Max 8GB DDR3/DDR3L SDRAM
- Dual HDD support Intel®RAID 0/1, and Optional second HDD or ODD
- Multiple Bus Expansion Slots, one PCIe x4, one PCIe, one PCIe x1, two PCIe, Optional two PCIe x1
- Built-in isolated RS-422/485 with Autoflow, Dual Intel® GbE

**PPC-8170/8150**
17” SXGA/15” XGA Intel® Core™ i5/i3/ Celeron® Panel PC
- Intel® Core™ i5-3550S/3-3220 with 2x 204-pin DDR3 SDRAM (Max 8GB)
- One PCIe x4 or PCIe slot
- Supports 6 x USB, 6 x COMs, 8 bit GPIO
- Supports iManager, SUSIAccess and Embedded Software APIs
**Industrial Communication**

**Simplify the Way You Connect**

Advantech’s Industrial Communication products draw on over 20 years of experience to provide reliable wired and wireless communication (3G, GPRS, and WLAN) for mission critical applications. These products include: Industrial Ethernet Switches, Industrial Wireless AP/Client, Media Converters, Serial Device Servers, Cellular IP Gateways, and Modbus Gateways. They are also capable of securely transmitting critical and sensitive information, remotely monitoring and controlling networked devices and emphasizing high communication capabilities for industrial applications.

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**Industrial Wireless AP/ CPE**

**EKI-1334**
Industrial UMTS/HSPA+ Cellular Router
- Universal five-band UMTS/HSPA+ 850/900/1800/1900/2100 MHz
- Dual WAN (Ethernet WAN and Cellular WAN) for redundancy
- Routing and firewall security protocols
- Advanced VPN (IPSec/SSL/GRE/L2TP/PPTP)

**EKI-1331**
1-port Serial/Ethernet to HSPA+ IP Gateway
- Universal five-band UMTS/HSPA+ 850/900/1800/1900/2100 MHz
- Protocols converting between serial and Ethernet: Modbus RTU & TOP
- Provides NAT and VPN
- EMC Level III for industrial standards

**EKI-1321/ 1322**
1/ 2-port RS-232/ 422/ 485 to GPRS IP Gateways
- Universal quad-band GSM/GPRS 850/900/1800/1900 MHz
- Dual SIM slots for connection redundancy
- Extra SD slot for data buffering and auto recovery
- Provides NAT and VPN

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**Industrial Wireless Access Point**

**EKI-6340 Series**
IEEE 802.11 a/ b/ g/ n Outdoor Single to Triple Radio Wi-Fi AP/ Client
- EMC Level 4
- C1D2 certified
- -40~75°C operating temperature range
- EN50155 compliant

**EKI-6351-A**
IEEE 802.11 a/ b/ g/ n Wi-Fi AP/ Client
- EMC Level 4
- C1D2 certified
- -40~75°C operating temperature range
- EN50155 compliant

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**Industrial Wireless Access Point**

**EKI-6310GN**
IEEE 802.11 b/ g/ n Wireless Access Point/ Client
- With N-type connector for antenna connector
- High output power 27dBm
- Standard 802.3af PoE PD
- WEP/ WPA/ WPA2/ IEEE 802.1 x authentication support

**EKI-6331AN**
IEEE 802.11 a/ n Wireless Access Point/ Client
- MIMO 2 x 2 11n
- Embedded 16dBi dual-polarity directional antenna with external R-SMA connector for optional antenna
- High output power 24 dBm
- IGMP snooping protocol support

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**Wireless Serial Device Servers**

**EKI-1361/ 1362**
1/ 2-port RS232/ 422/ 485 to 802.11b/ g/ n WLAN Serial Device Servers
- Links any serial device to an IEEE 802.11b/ g/ n network
- Provides 1/2 x RS-232/ 422/ 485 port
- Secures data access with WEP, WPA, and WPA2
- Supports WLAN Ad-Hoc and Infrastructure modes
Star Product Highlights

**EKI-9778**  
1U Rackmount Switch with Combo Port  
- Flexibility 24GbE + 4 10GbE Managed Switch  
- 24 x GbE ports and 4 x 10GbE (4x SFP+) ports  
- 16 x gigabit combo ports (1000BASE-T/TX or GbE SFP)  
- Dual redundant power 110 ~ 220 Vc, input  
- Fanless design  
- IEEE1588 PTPv2 with 1-step precision clock

**EKI-9316/ 9312**  
16/12 Port Full Gigabit Managed DIN Rail Switch  
- All Gigabit connections support dual-ring protection and non-blocking traffic forwarding  
- Redundancy: X-Ring+ (recovery time < 20ms)  
- STP, RSTP, MSTP for better redundancy  
- Dual power input, dual image for system reliability  
- Operating temperature: -40 ~ 75 °C

**EKI-7659C**  
8+2G Combo Port Gigabit Managed Redundant Ethernet Switch  
- 8 x Fast Ethernet ports, plus 2 x Gigabit combo ports  
- SFP socket for easy and flexible fiber expansion  
- Redundancy: X-Ring Pro (recovery time < 20ms)  
- Dual 12 ~ 48 Vc, power input and 1 relay output  
- IPv6 support

**EKI-5728/ 5725/ 5528/ 5525**  
8-port/ 5-port Fast and Gigabit ProView Series Ethernet Switch  
- Communicates with SCADA software via Modbus/TCP  
- Communicates with NMS via SNMP  
- Port-based QoS for deterministic data transmission  
- eMark certified (EKI-5728)  
- Loop detection

**EKI-3728/ 3725/ 3525**  
8-port/ 5-port Fast and Gigabit Unmanaged Ethernet Switch  
- Supports IEEE 802.3az, Energy Efficient Ethernet  
- Super compact IP40 protection  
- Supports IEEE 802.1p CoS+ VIP port  
- Supports redundant 12 ~ 48 Vc, dual power input and P-Fail relay  
- Loop detection

**EKI-7659CPI**  
8+2G Port Gigabit Managed PoE Switch with Wide Temperature  
- 8 x Fast Ethernet ports with PoE injector function, plus 2 x Gigabit Copper/ SFP combo ports  
- IEEE802.3at compliant, provides 15.4Watts per port  
- Redundancy: X-Ring Pro (recovery time < 20ms)  
- IPv6 support

**EKI-3541M/ 3541S/ST**  
10/100Tx (X) to Multi/ Single-Mode SC/ST Type Fiber Optic Media Converter  
- Supports Link Fault Pass-through (LFP) function  
- Supports full/half duplex flow control  
- Supports MDI/MDI-X auto crossover  
- Supports redundant 12 ~ 48 Vc, dual power input  
- ST Connector Provided

**EKI-9316P/ 9312P**  
16/12 Port Managed DIN Rail Switch with PoE/PoE+  
- All Gigabit connections support dual-ring protection  
- Redundancy: X-Ring+ (recovery time < 20ms)  
- IEEE 802.3at PoE+ to supply 30W power  
- IEEE 802.3at PoE+ per port with system PoE power management  
- Dual power input, dual image for system reliability  
- Operating temperature: -40 ~ 75 °C

**EKI-7659CPI**  
8+2G Port Gigabit Managed PoE Switch w/ Wide Temperature  
- 8 x Fast Ethernet ports with PoE injector function, plus 2 x Gigabit Copper/ SFP combo ports  
- IEEE802.3at compliant, provides 15.4Watts per port  
- Redundancy: X-Ring Pro (recovery time < 20ms)  
- IPv6 support

**EKI-1526/T/ 1528/T**  
16/8-port RS-232/422/485 Serial Device Server  
- 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  
- Built-in 15 KV ESD protection for all serial signals  
- Standard 1U rackmount size

**EKI-1524/C/L 1522/C/L/ 1521/C/L**  
4/2/1-port RS-232/ 422/ 485 Serial Device Server  
- 2 x 10/ 100 Mbps Ethernet ports for LAN redundancy  
- -40 ~ -70 °C operating temperature range  
- 2KV Isolation for RS-422/485 signals  
- EMC Level 4  
- IPv6/IPv4 Dual Stack  
- Port Buffering Support

**EKI-1224C/L 1222C/L/ 1221C/L**  
4/2/1-port Modbus Gateway  
- 2 x 10/100 Mbps Ethernet ports for LAN redundancy  
- Supports up to 921.6 kbps, and any baud rate setting  
- Automatic RS-485 data flow control  
- -40 ~ -70 °C operating temperature range  
- 2KV Isolation for RS-422/485 signals  
- EMC Level 4

**EKI-1224CI/L 1222CI/L/ 1221CI/L**  
4/2/1-port Modbus Gateway  
- 2 x 10/100 Mbps Ethernet ports for LAN redundancy  
- Supports up to 921.6 kbps, and any baud rate setting  
- Automatic RS-485 data flow control  
- -40 ~ -70 °C operating temperature range  
- 2KV Isolation for RS-422/485 signals  
- EMC Level 4
Intelligent Systems

Accelerating Cloud Computing, iConnectivity and Intelligent Video Solutions

With innovative technologies for cloud computing applications and services (industrial and video servers), edge computing applications (fanless, slim & portable devices), to high performance embedded systems (blade computing, network processor platforms, and DSP processing), Advantech is devoted to transforming our embedded systems into intelligent systems with smart, secured, energy-saving features. Designed by our Industrial Cloud Built-in Services and professional System Design-To-Order Services (System DTOS) teams, Advantech’s intelligent systems are designed to target multiple vertical markets in transportation, industrial automation (machine automation, equipment/machine builders), digital signage, and also video applications (video infrastructure and video surveillance).

Industrial Computers

ACP-4D00
4U Dial-node 350mm Chassis for Machine Automation Application
- Easy maintenance dual-node design
- Supports half-sized slot SBC and 6-slot backplane
- Maximum 3 available slots for 260mm length add-on cards
- Standard 4U height, ultra short depth of 350mm
- Self-diagnostics functions of system fan and temperature alarm

ACP-4020
Compact 4U Rackmount Chassis for Half-size SBC or ATX/ MicroATX Motherboard
- Compact 4U rackmount chassis, with shallow 350mm depth
- Supports ATX/ MicroATX motherboards or backplanes up to 15 slots for half-size SBC
- 1 x Internal 2.5” and two external 3.5” drive bays support up to five 2.5” HDD/ SSDs (via optional kit IDT-3102E)
- Supports 80 plus single power supply up to 700W
- Smart fan speed control for system fans

HPC-7442
4U Rackmount Chassis for EATX/ ATX Motherboard with Up to 8 SAS/ SATA HDD Trays
- Shock-resistant drive bay holds four hot-swap 3.5” and 2.5” SAS/ SATA disk drives, one slim optical disk drive, and one 3.5” internal drive
- With installation of optional storage upgrade kit, eight hot-swap HDD trays provide high storage capacity
- Supports 80 Plus certified single and redundant power supplies
- Front-accessible system fan
- LED indicators and audible alarm notification for system fault detection

Server-grade IPCs

ASMB-823
Intel® Xeon® E5 ATX Server Board
- LGA2011 ATX Server Board with dual Xeon® E5-2600(i3) processors
- DDR4 2133 MHz RDIMM up to 192 GB
- 4 x PCIe x16 slots (Gen3), two PCIe x8 (Gen3) and one PCIe x4 (Gen2) slots
- 9 x SATA3 ports and six USB 3.0 port

ASMB-923
Intel® Xeon® E5 EATX Server Board
- LGA 2011 EATX Server Board with dual Xeon® E5-2600(i3) processor
- DDR4 2133 MHz RDIMM up to 256 GB
- Four PCIe x16 slots (Gen3), two PCIe x8 slots (Gen3.0) and one PCIe x4 (Gen2.0)
- 10 SATA3 ports and 4 x USB 3.0 ports

GPU Server

AGS-920
2U GPU Server with Dual Intel® Xeon® E5 Processors
- Supports NVIDIA Tesla, Grid, Quadra, AMD FirePro, and Advantech designed DSP cards
- 8 x DDR3 Non-ECC/ECC/REG 1600 DIMM up to 128GB
- Supports 4 x FH/FL double-depth PCIe x16 expansion cards + 1 FH/HL single-depth PCIe x8 expansion card
- 8 x Hot-swap SATA/SAS HDD bays
- Quad GbE LAN (IPM 2.0) port

Star Product Highlights

ACP-4D00
4U Dial-node 350mm Chassis for Machine Automation Application
- Easy maintenance dual-node design
- Supports half-sized slot SBC and 6-slot backplane
- Maximum 3 available slots for 260mm length add-on cards
- Standard 4U height, ultra short depth of 350mm
- Self-diagnostics functions of system fan and temperature alarm
**Machine Vision Systems**

**AIS-1240 / 1440**
- PoE / USB 3.0 Machine Vision System, Intel® Core™ i7 CPU, Dedicated to 4-CH PoE / USB 3.0 Camera
  - Intel® 3rd/ 2nd Core™ i7/i5/i3 CPU (LGA1155)
  - AIS-1240: 4-CH GbE PoE (Power over Ethernet), IEEE 802.3af compliant
  - AIS-1440: 4-CH USB 3.0 with dedicated controller
  - Volume less than 3 Liters
  - Easier fan filter maintenance
  - Internal USB Type-A with lock design

**Fanless Compact Systems**

**ARK-5261**
- Intel® Celeron™ Processor J1900 Fanless Compact Equipment System with PCIe & PCI Expansion Slots
  - Supports 3rd Gen Intel® Core™ i5/ Celeron BGA type CPU with Intel® HM76 PCH
  - Supports 1x PCIex4 & PCI slots and 1x Mini-PCIe (Full size)
  - Supports VGA& HDMI/USB 3.0/ serial ports
  - Supports wide temperature -25 – 60°C
  - Supports 9 – 36V wide range DC input

**Transportation Systems**

**ITA-1711**
- Intel® Celeron™ Processor J1900 Fanless AFC System with Dual GbE and Display
  - Supports 3rd Gen Intel® Core™ i3/i5/i7 Processor Blade
  - Supports 4-channel HDMI video/ audio outputs up to 1920 x 1080
  - Supports four RS-232/422/485 (COM 1/2 with 5V/ 12V power); ARK-5261 sku has isolation feature
  - Supports 2 Giga LAN/ 1 USB 3.0+ 5 USB 2.0/ Dual 2.5" HDD/ GPIO& printer port
  - Supports wide power range of 9 – 30V DC input

**Multimedia Processing Cards**

**DSP-8682**
- Full-length PCI Express Card with 8 TI 8-core DSPs
  - On-board 8 x TI TMS320C6678 DSPs with PCIe Gen three 8 interfaces
  - 8 x TMS320C66x DSP Core Subsystems @ 1.0/1.25 GHz per DSP
  - 2 GB DDR-1333 memory per DSP

**High Performance Server**

**CGS-6000**
- 2U Server for Carrier Grade and Optimized I/O Deployment
  - Supports dual Intel® Xeon® E5v2 series processors
  - Up to 512GB DDR3 with 16 Registered ECC DIMMs
  - 4 x full-height, full-length PCIe x8 slots
  - 2 x full-height, half-length PCIe x4 slots
  - 4 x 2.5" hot-swappable SAS/ SATA HDD/ SSD drives

**CompactPCI® Platforms**

**MIC-3328**
- 3U CompactPCI PlusIO Intel® 3rd Generation Core™ Processor Blade
  - Supports 3rd generation Intel® Core™ processor and QM77 PCH
  - 4 GB DDR3 1600 soldered SDRAM with ECC (max 8GB)
  - 1 x 2.5" SATA-III SSD, CFast, XMC, SATA NAND Flash on board (optional)
  - Triple independent display support

**MIC-3396**
- 6U CompactPCI 4th Generation Intel® Core™ i3/ i5/ i7 Processor Blade
  - Supports 4th Generation Intel® Core™ i3/i5/i7 processors and QM87 PCH with embedded graphic display
  - 2 x SATA ports, 1 x USB 3.0, 4 x USB 2.0, 2 x DVI ports, 2 x RS-232 ports, 1 x PS/2 connector and PCIe x 8 interface to RTM
  - Optimized single-slot SBC with 2.5" SATA-III HDD/ CFast socket/ on-board flash (optional)

**CPCI-8220**
- 6U CompactPCI Freescale QorIQ P2040 Ruggedized Processor Blade
  - Supports Freescale QorIQ™ P2040 at 1.2 GHz
  - Up to 4GB DDR3 with ECC support
  - Supports extended operating temperature range -40°C – 85°C (optional)
  - Supports WR VxWorks 6.9 or WR Linux 4.3
Embedded Automation PCs

Open and Robust Computing Power for Automation Applications

Advantech’s offers a complete range of Embedded Automation PCs with each series coming in three sizes: palm, small and regular. All of them are dedicated to providing fanless, industrial-proven and application ready control platforms. With a robust design, they include multiple expansion solutions and versatile mounting methods to fulfill the needs of different applications. The UNO-1000/3000 series is ideal for din-rail, enclosure and book mounting in control cabinets and the UNO-2000 series is a versatile model for stand-mount environments. In addition, all new UNO products support Advantech iDoor Technology which utilizes the mPCIe format and gives customers the flexibility to configure the various I/O requirements based on different applications. Modules for iDoor Technology include: Fieldbus protocol; digital and analog I/O; smart sensor, communication and memory.

Control Cabinet PCs

UNO-1252G
Intel® Quark Palm-Size DIN-Rail Controller
- Intel® Quark 400MHz processor with 256MB memory
- 2 x LAN, 2 x mPCIe, 2 x COM, 8 x GPIO, 2 x USB, 1 x microSD, 1 x SIM, 1 x power terminal
- Compact with fanless design
- Chassis grounding protection

UNO-1372G
Intel® Atom Quad-Core Small-Size DIN-Rail Controller
- Intel® Atom E3845 1.91GHz processor with 4GB DDR3L memory
- 3 x GbE, 3 x USB 2.0, 2 x COM, 1 x VGA, 1 x HDMI, audio, 1 x mSATA, 1 x mPCIe, 1 x SATA, 8 x DI/O, 1 x power terminal
- Exchangeable RTC battery with easily access at top side

UNO-1483G
Intel® 4th Gen Core™ i3 Regular-Size DIN-Rail Controller
- Intel® 4th generation Core™ i3 processor up to 1.7GHz with 8GB DDR3L memory
- 4 x GbE, 3 x mPCIe, 1 x PCIe, 4 x USB 2.0/3.0, 1 x RS-232, 2 x RS-422/485, 1 x VGA, 1 x DP, 8 x DI/O and audio ports
- Dual power input and remote power button for reducing power down time

UNO-2272G
Intel® Atom™ Palm-Size Automation Computer
- Latest Intel® Atom™ processors up to 1.86 GHz with 2GB DDR3 memory
- 1 x GbE, 3 x USB 2.0, 1 x RS-232, 1 x VGA, 2 x mPCIe, audio
- Compact fanless design

UNO-2362G
AMD® Dual Core T40E Small-Size Automation Computer
- AMD® Dual Core T40E 1.0GHz processor with 2GB DDR3 SO-DIMM memory
- 1 x GbE, 4 x USB 2.0, 1 x RS-232, 1 x RS-485, 1 x mPCIe, 1 x DP, 1 x HDMI
- Daisy-chain for Ethernet with auto-bypass protection enabled

UNO-2483G
Intel® 4th Gen Core™ i7/ i3/ Celeron®/ Atom™ Regular-Size Automation Computer
- Intel® 4th Gen Core™ i7/i3/Celeron®/Atom™ processors up to 1.9GHz with 4GB/8GB DDR3L memory
- 4 x PoE, 4 x GbE, 4 x USB 2.0/3.0, 2 x RS-232, 2 x RS-422/485, 1 x VGA, 1 x HDMI, audio
- Chassis grounding protection

Embedded Vision Controller

UNO-2483P
Intel® Core™ i7/Celeron Regular-Size Automation Computer
- Intel® 4th generation Core™ i7/Celeron processors up to 1.9GHz with 4GB/8GB DDR3L memory
- 4 x PoE, 4 x GbE, 4 x USB 2.0/3.0, 2 x RS-232, 2 x RS-422/485, 1 x VGA, 1 x HDMI, audio
- Rubber stopper design with captive screw

UNO-3382G/3384G
Intel® Core™ i7 Book Mount Automation Computer
- Intel® 4th Generation Core™ i7/Celeron processors with 4GB/8GB DDR3L memory
- 2 x GbE, 2 x USB 2.0, 2 x USB 3.0, 1 x RS-232/422/485, 2 x display ports, 2 x PCI/PCIe, 2 x mPCIe, 1 x mSATA slot
- Dual hot-swappable HDD/SSD slots with thumb screws for easy maintenance
- Supports DIN-rail, stand, wall and book mounting

UNO-3483G
Intel® Core™ i7 Enclosure Mount Automation Computer
- Intel® 3rd Gen Quad Core processor, up to 2.1 GHz with 8GB DDR3L memory
- 2 x GbE, 2 x USB 2.0, 2 x USB 3.0, 1 x RS-232, 1 x RS-422/485, 1 x VGA, 1 x HDMI, 1 x PCIex4, 3 x mPCIe, 1 x mSATA slot
- Dual hot-swappable HDD/SSD slots with thumb screws for easy maintenance

UNO-1000/3000 series
- Ideal for din-rail, enclosure and book mounting in control cabinets

UNO-2000 series
- Versatile model for stand-mount environments

UNO-3000 series
- New UNO products support Advantech iDoor Technology

Advantech's offers a complete range of Embedded Automation PCs with each series coming in three sizes: palm, small and regular. All of them are dedicated to providing fanless, industrial-proven and application ready control platforms. With a robust design, they include multiple expansion solutions and versatile mounting methods to fulfill the needs of different applications. The UNO-1000/3000 series is ideal for din-rail, enclosure and book mounting in control cabinets and the UNO-2000 series is a versatile model for stand-mount environments. In addition, all new UNO products support Advantech iDoor Technology which utilizes the mPCIe format and gives customers the flexibility to configure the various I/O requirements based on different applications. Modules for iDoor Technology include: Fieldbus protocol; digital and analog I/O; smart sensor, communication and memory.
Advantech iDoor Modules

PCM-2300MR
MR4A168, MRAM, 2MByte
- 2MB MRAM Storage
- Speed 6 MB/Sec

PCM-24R1TP
Intel 82574L, GbE, IEEE 1588 PTP, RJ45 x 1
- 1 port GbE LAN
- IEEE 1588 precision time protocol ready

PCM-24U2U3
USB 3.0 mPCIe card, USB-A type x 2
- 2 port USB 3.0
- USB A type

PCM-24D2R2/ PCM-24D2R4
OXPCIe952 UART, Isolated RS-232, RS-422/485, DB9 x 2
- 2000 VDC isolation protection
- RTS/CTS/Xon/Xo flow control

PCM-26R2EC
Hilscher netX100 FieldBus mPCIe, EtherCAT, RJ45 x 2
- Real-time fieldbus EtherCAT protocol
- Supports Master/Slave

PCM-26D2CA
SJ1000 CANBus, CANOpen, DB9 x 2
- CAN 2.0 A/B
- 1Mbps, 16MHz

PCM-23C1CF
CFast, Ejection Type I, CFast x 1
- 1 port CFast I/O card
- CFast 3.0, Type III

PCM-24R2GL
Intel i350 mPCIe, GbE, IEEE 802.3ab, RJ45 x 2
- 2 port GbE LAN
- Intel i350

PCM-24S2WF
Atheros AR9462, 802.11 a/b/g/n 2T2R w/ BT4.0, SMA x 2
- Atheros AR9462
- 802.11 a/b/g/n 2T2R w/ Bluetooth 4.0

PCM-24D4R2/ PCM-24D4R4
OXPCIe954 UART, Non-isolated RS-232, RS-422/485, DB9 x 2
- Non isolation 4 COM ports
- 50 bps – 921.6 kbps serial speed (RS-422/485)

PCM-23U1DG
Internal Locked USB Slot for USB Dongle, USB x 1
- 1 port USB I/O card
- USB A type w/ lock

PCM-24R2PE
Intel i350, GbE, PoE IEEE 802.3af, PD, RJ45 x 2
- 2 port PoE (Power Over Ethernet)
- Single port 15.4W of DC power

PCM-27D24DI
Digital I/O, Isolated 16DI/8DO, DB37 x 1
- 16DI, 8DO
- 2500 VDC isolation protection

PCM-26D1DB
Hilscher netX100 FieldBus mPCIe, PROFINET, DB9 x 1
- Fieldbus PROFINET protocol
- Supports Master/Slave

PCM-26R2PL
Hilscher netX100 FieldBus mPCIe, POWERLINK, RJ45 x 2
- Real-time fieldbus POWERLINK protocol
- Supports Slave
Advantech’s APAX products are PC-based controllers which leverage embedded computing technology to achieve the same level of ruggedness as PLCs. With an open architecture and scalable I/O Modules, the APAX series is more flexible in order to implement various modern control strategies. It also inherits an excellent communication capability to collaborate with other industrial devices. Not only does it have super reliability, but the APAX bus provides backup and redundancy functionality to enhance the total availability.

APAX-5580 Controller and Modules

APAX-5580
APAX High Performance Controller
- Intel® 4th gen. Core i7/i3/Celeron CPU inside
- 2 x mPCIe interfaces for wireless communication
- One key operating system recovery
- Dual power input and UPS support

APAX-5435
APAX iDoor interface Module
- Supports Fieldbus iDoor module
- Supports mPCIe interface

UPS Module
APAX UPS Module
- Provides emergency power when the main power fails
- Supports fast boot from standby mode

APAX-5580 PCIe Modules

APAX-5490
RS-232/422/485 Module
- Support RS-232/422/485
- Auto flow control in 485 mode

APAX-5430
APAX SATA HDD Module
- SATA I/II/III 2.5” HDD/SDD
- Support RAID 0/1
- Support Hot swap

Couplers

APAX-5070/5071/5072
Fieldbus Communication Coupler
- Revised to support 1ms Modbus response time
- Flexible Modbus mapping table
- Supports UDP Data Streaming function and Event Alarms

I/O Modules

APAX-5090
Communication Module with APAX Local Bus
- 4 x RS-232/422/485 ports
- Acts as a Modbus gateway with APAX-5070
- Supports distributed topology with APAX bus

APAX-5017H
12-ch High Speed Analog Input Module
- Voltage and current inputs including ± 10 V and 4 – 20 mA
- Each channel can be configured with different input types and ranges
- 1000 samples/second per channel

APAX-5080
4/8-ch High Speed Counter Module
- 5 counter:Up, Up/Down, Pulse/Direction, A/B phase, Frequency
- 4 x DI channels for counter gate inputs
- 4 x DO channels for alarm outputs
Intelligent RTUs
Smart IoT Devices with Dual Wireless Network Capability and Flexible I/O Options

The ADAM-3600 is an intelligent RTU, mainly used in the oil, gas and water industries. Intelligent network nodes in the IoT, can control the downstream field devices to complete delivery tasks, transfer data to upstream devices wired or wirelessly. It is key to connecting devices to the Internet of Things architecture. The ADAM-3600 has a high performance and low power processor, adopts 20 local I/O points and wired and wireless communication modes, users can collect, process and distribute the local information. It has a built-in real-time operating system and a real-time database, providing customers with an open interface and supports diverse programming languages.

Open Standard Intelligent RTU

ADAM-3600-C2G
8 AI / 8 DI / 4 DO / 4-Slot Expansion and Dual Wireless
- Ti Cortex A8 600MHz CPU with DDR3L 256MB RAM
- RT-Linux OS with TagLINK realtime database
- Onboard I/O: 8AI / 8DI / 4DO with 4-Slot I/O expansion flexibility
- Internal 2 x Mini-PCIe Interface for Dual Wireless Networking
- Certified Wireless Solution Zigbee/ Wi-Fi/ 3G/ 4G/ GPRS
- IEC61131-3 & C programming language SDK support
- Modbus/TCP, Modbus/RTU & DNP3 protocol support
- Wide operation temperature -40~70°C
- Support iCDManager for remote connectivity diagnosis
- iRTU Studio for off-line configuration and remote deployment

Intelligent Ethernet I/O Module

ADAM-3600-A1F
16 DI / 8 Relay with 4-Slot Expansion
- 16-ch Digital Input, 8-ch Relay Output on board I/O
- Flexible I/O deployment by 4-slot expansion module
- Datalog by internal memory, SD card, USB
- Support the Access Control function
- Auto firmware update by USB and SD card
- Remote monitor, control and configure through a Web browser
- Supports built-in web server and RESTful Web service

I/O Expansion Modules

ADAM-3600 Series I/O Expansion Modules
- ADAM-3651 8-ch Digital Input Module
- ADAM-3656 8-ch Digital Output (Sink type) Module
- ADAM-3624 2-ch Analog Output Module
- ADAM-3660 4-ch Relay Output Module
- ADAM-3618 3-ch Thermocouple Module
- ADAM-3617 4-ch Analog and Input Module
Power & Energy Automation

Ensure Reliable P&E Automation with IEC 61850-3 and IEEE 1613 Compliant Products

Advantech provides Power and Energy computers, controllers, and data acquisition module with rugged, cableless designs for harsh environments in Smart Substation and Green Energy applications. The UNO-4600 series and ECU-4000 series are compliant with the hardware requirements of IEC-61850-3, which defines the international standards of network and system communications in smart substation. Advantech also provides power and energy controllers (ECU-1000) for transformer and GIS switches, IED (Intelligent Electronic Devices) applications.

Power & Energy Automation Computers

**ECU-4674**
Intel® Atom™ N2600 Substation Computers for Power Automation Applications
- Intel® Atom™ N2600 1.6GHz CPU
- Supports 2 x RS-232 isolated ports, 16 x RS-232/485 isolated ports
- Supports 2 x 10/100/1000 Base-T, and 6 x 10/100 Base-T
- iCDManager : intelligent Connectivity Diagnose Manager

**ECU-4784**
Intel® Haswell Core i7 Power & Energy Automation Computer with 8 x LAN, 10 x COM and 2 x Expansion Slots
- Intel® Haswell Core i7 4650U 1.7GHz processor
- Supports 1 x 10/100/1000 Base T RJ-45 (Support AMT, Teaming Function, PXE, 1588)
- Supports 7 x 10/100/1000 Base T RJ-45 (Supports Teaming Function, PXE, 1588)
- iCDManager : intelligent Connectivity Diagnose Manager

**UNO-4673A/4683**
Intel® Atom™ D510/ Core™ i7 Substation Computers for Power Automation Applications
- Intel® Atom™ D510 1.66 GHz CPU (UNO-4673A)/Intel® Core™ i7 2.0 GHz CPU (UNO-4683)
- Supports fiber optic,IRIG-B, 6 x LAN, and 2 x COM
- Supports PCI, Mini PCI, Mini PCle, and PCI-104 expansions

Power & Energy Automation Controllers

**ECU-1871**
Intel® Atom™ D510 Modular Power & Energy Controller
- Intel® Atom™ D510 CPU
- 1 x RS-232 port, 2 x RS-485 isolated ports
- 2 x 10/100Base-T RJ-45 connectors
- Windows® CE 6.0, WES 2009, and Linux ready solution
- Supports 2 x PCI-104 extension slots

**ECU-1911**
Xscale @ PXA-270 520MHz All-in-one Open RTU
- Xscale @ PXA-270 520 MHz CPU
- 1 x RS-232 port, 3 x RS-485 isolated ports, 1 x VGA
- 2 x 10/100Base-T RJ-45 connectors
- 8-ch 16-bit differential Analog Input
- 32-ch isolated Digital Input/Output

**ECU-1710A**
Intel® Atom™ D510 Automation Controller Combined with Embedded Computer and DAQ Cards
- Intel® Atom™ D510 CPU
- 2 x RS-232 ports
- 2 x 10/100Base-T RJ-45 ports
- 16-ch AI/4-ch AO/16-ch DI/O/1-ch Counter
- Integrated PCI-1710UL & PCI-1720U DAQ cards

Power & Energy Automation Extension Cards

**ECU-P1706/ P1300**
Simultaneous AI Card Combined with Vibration Signal Modulate Card for ECU-1871
- Simultaneous 8-ch AI with PCI-104
- 250KS/s, 16-bit, 8K Samples On-board FIFO
- 2-ch, 32-bit Timer/Counter
- 0.1Hz-25Hz adjustable low pass filter (ECU-P1300)

**UNOP-1618D/ 1628D**
8-port Isolated RS-232/422/485 with/ without Port-to-port Isolation for UNO-4673A/4683
- 8 x COM ports
- Selectable RS-232/422/485 port
- Isolation 2500VAC (UNOP-1628D)
- Automation RS-485 data flow control

**UNOP-1514C/ RE/ PE**
4-port Fiber Optic LAN Card for UNO-4673A/ 4683
- LAN 100 Base-FX
- Distance: Up to 2 km
- IEEE 802.3, 802.3u, 802.3x
- Wavelength : 1310nm
- 4 x SC type Multi-mode fiber ports
Machine Automation

Integrated Soft Computing to Enable Intelligent Machines

Supporting Advantech’s PCI-1245/1265/1285/1245E/1285E/1245L series, SoftMotion is an important core technology in the machine automation field. Advantech independently developed its own SoftMotion control technology and uses the FPGA (Field Programmable Gate Array) and DSP (Digital Signal Processing) as the core-computing hardware platform. Meanwhile, based on the three motion control architectures - centralized, distributed, embedded. Advantech’s comprehensive product offering helps our customers to continuously progress their technologies and optimize customer’s devices control to minimize their programming needs.

Motion Control PCI Cards

**PCI-1245E/1285E**
Economic SoftMotion 4/8-axis Stepping and Servo Motor Control PCI Card
- Softmotion on DSP
- T&S-curve speed profile, Prog. Acc and Dec
- Jog Move, P to P move, Home Move
- 2-axis Linear interpolation, E-Gear
- Single axis Position/Speed override

**PCI-1245/1265/1285**
Standard SoftMotion 4/6/8-axis Stepping and Servo Motor Control PCI Card
- Functions supported by Economic version
- 2 axis circular move, Helical Move
- Path table, Tangential move, Look Ahead
- Superimposed Move, E-CAM, Triggerer/Latch
- Group position/Speed override
- 8DI/8DO/2AI (PCI-1265)

**PCI-1245L**
Basic SoftMotion 4-axis Stepping and Servo Motor Control PCI Card
- SoftMotion on FPGA
- Single end pulse output for stepping motor
- T&S-curve speed profile, Prog. Acc and Dec
- Jog Move, P to P move, Home Move
- 2-axis Linear interpolation
- Single axis position/Speed override

AMONet Master Cards & Slave Modules

**PCI-1202U**
2-port AMONet RS-485 PCI Master Card
- Up to 64 slave AMAX modules per ring
- Transmission (baud rate) can be up to 20Mbps
- Communication distance is up to 100 M @ 10Mbps
- Programmable digital input to notify events
- Easy installation with RJ45 phone jack and LED diagnostic

**AMAX-1220/1240**
High-performance 2/4-axis AMONet Motion Slave Module
- Maximum transmission (baud rate) can be up to 20Mbps with master card
- Maximum pulse train output up to 6.5 MHz & equipped with encoder input
- 2-axis point-to-point, linear & circular interpolation
- Position compare and triggering function (AMAX-1240 only)

**AMAX-1752/1754/1756**
Compact 32-ch Isolated Digital Input/Output Slave Module
- Maximum transmission (baud rate) can be up to 20 Mbps with master card
- On-board terminal for direct wiring & LED indicators
- 2,500 Vrms isolation voltage
- Compact design for horizontal placement

EtherCAT Solutions

**PCI-1203**
EtherCAT Master PCI Card
- EtherCAT master card for Advantech and other EtherCAT IO / motion slave device connection
- Windows utility for slave device information display and parameter setting
- Integrate Advantech Common Motion SDK for user programming
- Support multi-axes and group motion function
- Support high density DI/O and AI/O application

**ADAM-5000/ECAT**
4-slot Distributed High Speed I/O System for EtherCAT
- 4 slots with various digital and analog I/O modules is just a single EtherCAT node on the network
- Supports EtherCAT Distributed Clock (DC) mode and SyncManager mode
- Supports the Modular Device Profile (MDP) when all modules are a pure I/O function
- Compatible with Advantech Common Motion SDK or other EtherCAT master through ENI file generation

Embedded Motion Controller

**PEC-3240**
Intel® Celeron® M 1.0 GHz 4-axis Embedded Motion Controller with 32-ch Digital I/O
- Onboard Intel® Celeron® M 1.0 GHz CPU
- 16-ch isolated DI and 16-ch isolated DO
- Independent 4-axis motion control
Data Acquisition and Control

A Broad Selection of Form Factors to Satisfy All Your DAQ Needs

Advantech offers a wide range of industrial data acquisition and control devices with various interfaces and functions. Based on PC technology, from ISA to PCI Express, and signal conditioning to graphical software tools, Advantech’s industrial I/O products are reliable, accurate, affordable, and suitable for many industrial automation applications, such as testing & measurement, laboratory applications, machine automation, and production testing. Moreover, its brand new I/O driver, DAQNavi, supports Windows 7 and 8, helping customers seamlessly integrate Advantech’s data acquisition cards to the latest platforms, improve performance, and reduce development time.

### PCI Express DAQ Cards

**PCIE-1730**
32-ch TTL and 32-ch Isolated DI/O PCI Express Card
- 16-ch TTL DI and 16-ch TTL DO with 5 V compatibility
- 16-ch isolated DI and 16-ch isolated DO with 24 V compatibility
- High-voltage isolation on all isolated DI/O channels (2,500 V<sub>dc</sub>)

**PCIE-1752/ 1754/ 1756**
64-ch Isolated Digital I/O PCI Express Card
- PCIE-1752: 64-ch DO
- PCIE-1754: 64-ch DI
- PCIE-1756: 32-ch DI, 32-ch DO
- High-voltage isolation on all channels (2,500 V<sub>dc</sub>)
- Keep the output setting and value after system hot reset
- Interrupt handling capacity

**PCIE-1760**
8-ch Relay and 8-ch Isolated DI PCI Express Card
- 8-ch isolated DI with programmable digital filter
- High-voltage isolation on input channels (2,500 V<sub>dc</sub>)
- Keep the output setting and value after system hot reset
- 2-ch Form C and 6-ch Form A relay output
- 2-ch counter input and PWM output available

**PCIE-1802**
8-ch, 24-Bit, 216 kS/s Dynamic Signal Acquisition PCI Express Card
- 8 simultaneously sampled analog inputs up to 216 kS/s
- 24-bit resolution ADCs with 115 dB dynamic range
- Wide input ranges from ±0.2 V to ±10 V
- Built-in anti-aliasing filter
- Software configurable 4 or 10 mA integrated electronic Piezoelectric (IEPE)

**PCIE-1840**
125MS/s, 16-bit, 4-ch Digitizer PCI Express Card
- 4 analog inputs, up to 125MHz, 16-bit resolution
- 500 MHz Time Interleaved Sampling
- Non-stop data streaming capable
- 2 GB on-board memory
- On-Board tunable anti-aliasing filter AC/DC Coupling

### PCI DAQ Cards

**PCI-1714U/1714UL**
Simultaneous Analog Input PCI Card
- Each channel has dedicated A/D converter
- PCI-1714U: 12-bit, 30 MS/s, 4-ch single-ended AI
- PCI-1714UL: 12-bit, 10 MS/s, 4-ch single-ended AI
- 30 V<sub>dc</sub> over-voltage protection

**PCI-1716/ L**
250KS/s, 16-bit, 16-ch Multifunction PCI Card
- 16 single-ended or 8 differential or a combination of analog inputs
- 16-bit A/D converter, with up to 250 kHz sampling rate
- Auto-calibration
- 16-ch digital input and 16-ch digital output
- 2 analog output channels (PCI-1716 only)

**PCI-1730U/ 1756**
32-ch/ 64-ch Isolated Digital I/O Universal PCI Card
- High-voltage isolation on output channels (2,500 V<sub>dc</sub>)
- Wide output range (5 ~ 40 V<sub>dc</sub>)
- High-sink current for isolated output channels (80 mA max./Channel)
- Current protection for each port
**USB DAQ Modules**

**USB-4711/ 4716**
- 150 kS/s, 12-bit / 200 kS/s, 16-bit
- 16-ch Multifunction USB Module
  - 2 analog output channels
  - 5V/TTL compatible DIO (8 inputs, 8 outputs)
  - 1 counter for event counting, frequency measurement and PWM output
  - Lockable USB cable for secure connection

**USB-4750**
- 32-ch Isolated Digital I/O USB Module
  - 16 isolated DI and 16 isolated DO channels
  - 2 isolated counters for event counting and frequency measurement
  - Keeps the last output value after system hot reset
  - 2,500 VDC isolation protection

**USB-4761**
- 8-ch Relay and 8-ch Isolated Digital Input USB Module
  - 8 Form C (SPDT) relay channels
  - Relay contact rating: 0.25 A @ 250 VAC, 2 A @ 30 VDC
  - LED indicators to show activated relay
  - 2,500 VDC isolation protection

**PCI/PCIE Communication Cards**

**PCI-1620/ 1622**
- 8-port PCI Express Serial Communication Card with Surge Protection
  - PCI-1610: RS-232
  - PCI-1612: RS-232/ 422/ 485
  - Optional surge protection
  - DMA mastering to reduce CPU loading
  - 128-byte FIFOs with advanced management

**PCIE-1610/ 1612**
- 4-port RS-232/422/485 PCI-express PCI Comm. Card w/Iso
  - PCIE-1610: 4x RS-232 ports
  - PCIE-1612: 4x RS-232/422/485 ports
  - Optional surge protection
  - DMA mastering to reduce CPU loading
  - 128-byte FIFOs with advanced management

**PCIE-1672PC/ 1674PC**
- 4/ 8-port PCI Express Power-over-Ethernet Communication Card
  - Onboard DSP to reduce CPU loading
  - 2,250 VDC isolation protection
  - Supports Jumbo frames (9,500 byte) and link aggregation
  - Supports IEEE-1588 and IEEE-802.1 AS timing and synchronization

**CompactPCI Systems**

**MIC-3106/ 3111/ 3121**
- 4U CompactPCI With 2/7 Peripheral Slots
  - 2G operational anti-vibration protection
  - 2G shipping anti-vibration protection
  - Air-tight seal connector design for corrosive environments
  - Modular design and front hot-swap enabled
  - Easily exchange peripheral cards to reduce maintenance costs
IoT Wireless I/O Modules

As wireless applications became a more common and preferred solution, Advantech introduced a variety of wireless remote I/O devices to the market as an important enabler of the IoT. With the Wi-Fi based WISE-4000 series and popular Zigbee protocol ADAM-2000 series, our clients are free from worrying about a wired layout and extra associated costs, for a more flexible deployment. Furthermore, the WISE-4000 series brings an authentic IoT experience to the market. By realizing an “anytime and anywhere” solution, not only can users retrieve data via mobile devices, the modules can now be configured and troubleshooted from mobile devices to save time.

Wireless IoT Ethernet I/O Modules

WISE-4050
4-ch Digital Input and 4-ch Digital Output IoT Wireless I/O Module
- 2.4 GHz IEEE 802.11b/g/n WLAN
- Protocols: Modbus/TCP, TCP/IP, UDP, DHCP, HTTP
- Supports RESTful web API in JSON format for IoT integration
- Supports both wireless client and server modes that can be accessed directly without AP or router
- Supports mobile device web configuration with HTML5
- Supports 10~30Vdc power with reverse protection

WISE-4012
4-ch Universal Input and 2-ch Relay Output IoT Wireless I/O Module
- 2.4 GHz IEEE 802.11b/g/n WLAN
- 4-ch UI: 0~10V, 0~20mA, 4~20mA, digital input
- Supports RESTful web API in JSON format for IoT integration
- Web Services: REST, HTML5, JavaScript, JSON
- Supports both wireless client and server modes that can be accessed directly without AP or router
- Supports mobile device web configuration with HTML5

M2M (Machine to Machine) I/O Modules

ADAM-2520Z/2510Z
Wireless Modbus RTU Gateway
- 2.4 GHz IEEE 802.15.4 compliant RF
- Outdoor range up to 1,000 m
- Supports battery input with 2 x AA alkaline batteries
- Supports Modbus RTU protocol
- Network capacity with 32 devices (routers & end devices)
- Supports Star/Tree/Mesh Network Topologies

ADAM-2051Z/2051PZ
Wireless 8-ch Digital Input Node with Power Amplifier
- 2.4 GHz IEEE 802.15.4 compliant RF
- Outdoor range up to 1,000 m
- Supports battery input with 2 x AA alkaline batteries
- 15KΩ input resistance

ADAM-2031Z
Wireless Temperature & Humidity Sensor Node
- 2.4 GHz IEEE 802.15.4 compliant RF
- Low duty cycle and low power consumption
- Outdoor range up to 110 m
- Supports battery input with 2 x AA alkaline batteries
- Built-in temperature/humidity sensor input

ADAM-2107PZ
Wireless 6-ch Analog Input Node with Power Amplifier
- 2.4 GHz IEEE 802.15.4 compliant RF
- 6-ch differential input: ±150mV, ±500mV, ±1V, ±5V, ±10V, ±20mA, 0~20mA, 4~20mA
Remote I/O Modules

Providing Remote I/O Connectivity with RS-485 and Ethernet, with More Options

When "Internet of things" is no longer just a slogan, Advantech's versatile products boost clients' production performance by meeting different application needs. With a typical automation network using RS-485 to transmit serial signals the ADAM-4000 & robust ADAM-4100 series, and the designed for harsh environment Robust RS-485 based ADAM-4100 series, Ethernet based ADAM-6000 series and Daisy-chain Ethernet based ADAM-6200 series, managing field devices becomes easier and the field site status can be identified, tracked and altered remotely. There are over 1 million ADAMs in the world, in various industries such as industrial automation, environmental and facility management, intelligent transportation system, and so on and their record of being highly efficient devices is well proven.

Daisy-chain Ethernet I/O Modules

**ADAM-6217/ 6224**
- Isolated Analog I/O Modbus TCP Module
- ADAM-6217: 8-ch AI; ADAM-6224: 8-ch AO & 4-ch DI
- Daisy chain connection with auto-bypass protection
- Auto-calibration without providing any input
- Web language support: HTML 5, Java Script, XML
- Supports GCL and Peer-to-Peer
- Group configuration capability for setting up multiple modules

**ADAM-6250/ 6251/ 6256**
- Isolated Digital I/O Modbus TCP Module
- ADAM-6250: 8-ch DI & 7-ch DO
- ADAM-6251: 16-ch DI; ADAM-6256: 16-ch DO
- Daisy chain connection with auto-bypass protection
- D/O LED Indication; DO fail safe value
- Web language support: HTML 5, Java Script, XML
- Supports GCL and Peer-to-Peer
- Group configuration capability for setting up multiple modules

**ADAM-6260/ 6266**
- Relay Output Modbus TCP Module (with DI)
- ADAM-6260: 6-ch RL; ADAM-6266: 4-ch RL & 4-ch DI
- Daisy chain connection with auto-bypass protection
- D/O LED Indication; Relay fail safe value
- Web language support: HTML 5, Java Script, XML
- Supports GCL and Peer-to-Peer
- Group configuration capability for setting up multiple modules

Smart Ethernet I/O Modules

**ADAM-6017**
- 8-ch Isolated Analog Input Real-time Ethernet Module
- 2-ch DO for AI trigger applications
- Modbus RTU, TCP/IP, UDP and HTTP protocol
- Embedded web server
- Supports data stream and event trigger
- Supports GCL and Peer-to-Peer

**ADAM-6050**
- 18-ch Isolated Digital I/O Modbus TCP Module
- Modbus RTU, TCP/IP, UDP DHCP and HTTP protocol
- 12-ch digital input and 6-ch digital output
- Embedded web server
- Supports data stream and event trigger
- Supports GCL and Peer-to-Peer

**ADAM-6060/ 6066**
- 6-ch Digital Input and 6-ch Relay Modbus TCP Module/ 6-ch Digital Input and 6-ch Power Relay Modbus TCP Module
- Modbus RTU, TCP/IP, UDP DHCP and HTTP protocol
- Embedded web server
- Supports data stream and event trigger
- Supports GCL and Peer-to-Peer

Robust RS-485 I/O Modules

**ADAM-4117/ 4118**
- Robust 8-ch Analog Input Module
- Modbus RTU protocol
- Wide operating temperature -40 ~ 85°C (-40 ~ 185°F)
- 8 differential and independent configuration channels
- High common mode voltage 200 V<sub>AC</sub>
- 1 kV surge, 3 kV EFT and 8 kV ESD protection

**ADAM-4017+/ 4018+**
- 8-ch Analog Input Module
- Modbus RTU protocol
- 8-ch AI/ 8-ch Thermocouple Input
- Over Voltage Protection: ±35 V<sub>DC</sub>
- Built-in TVS/ESD protection
- Isolation Voltage: 3,000 V<sub>DC</sub>

**ADAM-4051/ 4055/ 4056**
- 16-ch Isolated Digital Input Module
- 16-ch Isolated Digital Input Module
- 12-ch Isolated Digital Output Module
- Modbus RTU protocol
- ADAM-4055: 8-ch DI & 8-ch DO
- Dry/ wet contact digital input level
- Isolation Voltage: 2,500 V<sub>DC</sub>
- Over Voltage Protection: 70 V<sub>DC</sub>
Advantech WebAccess

The IoT Software Framework

Advantech WebAccess is a 100% web-based HMI/SCADA software. With more and more investment and development on integrating IoT applications and cloud architecture, it has become not only a HMI/SCADA software but also an IoT software framework in the IoT era. Advantech WebAccess supports powerful remote monitoring and control functions through standard web browsers, so that users can easily monitor and control automation equipment with full featured SCADA functions by their Client or Thin Client device. Starting from Version 8, Advantech WebAccess provides a HTML5 based Dashboard as the next generation WebAccess HMI. It helps system integrators to create their own dashboard and view their dashboard remotely via any device. Advantech WebAccess also provides open interfaces for system integrators to develop their IoT applications and widgets which can meet the needs of various applications.

Advantech WebAccess HMI/SCADA Software

Advantech WebAccess
100% Web-based HMI/SCADA Software
• Distributed SCADA architecture with central database server and multi-layer inter- operable SCADA nodes
• Supports ample drivers, including Advantech I/O, controllers and major PLCs
• Web-enabled video, audio and animation
• Excel self-defined reports
• Google Maps and GPS location tracking integration
• High availability redundant SCADA, ports and devices
• Supports open interfaces as an IoT platform

HTML5 Business Intelligence Dashboard
• Cross-browser, cross-platform WebAccess HMI based on HTML5
• Supports dynamic thin clients access for a seamless viewing experience across PC, Mac, tablet and smartphone
• Built-in widgets to customize information page by analysis charts and diagrams
• Create customized widget with graphic functionalities, like basic shape, animation, picture import, and macro command via cross-browser

WebAccess Bundled Products

WA-TPC1771
17” Touch Panel Computer with 600/5,000 Tags WebAccess
• Built-in Windows 7 Embedded with Advantech WebAccess 600/5,000 Tags
• Intel® Atom™ D525 1.8 GHz CPU
• 8 DI/O and backup SRAM support

WA-UNO2178A
Compact SCADA Server with 600/5,000 Tags WebAccess
• Built-in Windows 7 Embedded with Advantech WebAccess 600/5,000 Tags
• Intel® Atom™ D510 1.67 GHz CPU
• 2 x GbE, 8 x COM, 6 x USB 3.0 and 2 x MiniPCIe

Semiconductor Data Gateway

WA+SECS
WebAccess SECS Server with Intel® Core™ i7 Automation Computer
• SECS protocol embedded – SEMI standard compliant interface for data collection
• Provides SECS functions for polling, trace and event notification by configuration
• Bundled with Advantech WebAccess, browser based HMI/SCADA software

Energy Data Gateways

BEMG-4221/4222
Energy Data Concentrator with 6 x USB, 4x COM / 8x COM, 128 Devices
• Built-in Windows CE with Advantech WinCE WebAccess
• Web-server functions support customers with remote configuration, remote operation, remote maintenance
• Combines Advantech BEMS and power meter for energy saving solution
Rugged Tablets as Portable HMI

Advantech’s portable HMI products are designed to assist mobile workers with conducting and managing onsite inspections. Equipped with the latest Intel® chipset and RF technology (WLAN, WWAN, and GPS), Advantech’s rugged tablets enable data to be transmitted and processed seamlessly, ensuring workers have constant access to relevant information. Integrated I/O (dual camera, RFID, NFC RFID, and RS-232) and extensive user-friendly accessories (including a vehicle docking station, desk docking station, universal cover, and customizable extension modules) support rapid data collection and mobile operation for substantially increased productivity. The rugged product designs (MIL-STD-810G and IP65 certification with a drop tolerance of up to 4 ft.), sunlight-readable displays, and long battery life are designed to facilitate the completion of complex tasks in harsh field environments.

**Fully Rugged Tablet**

**PWS-870**
10" 16:9 Fully Rugged Tablet with Fourth Generation Intel® Core™ i Processor
- MIL-STD-810G and IP65 certified, and can withstand drops of up to 4 ft.
- 10.1" HD high-brightness, multi-touch, Gorilla Glass panel with digitizer
- Fourth generation Intel® Core™ i processor supports Windows 8
- Built-in 4G LTE, WLAN (802.11 a/b/g/n/ac), BT4.0, and GPS modules with Beidou/GLONASS support

**PWS-770**
10" 4:3 Rugged Tablet with Intel® Atom™ N2600 Processor
- 10.4" XGA LED, high brightness (300 cd/m²), WAV transflective-LCD panel
- Hot swappable, high-capacity li-ion battery provides 8 hours of operation
- Wide variety of i/O ports support various applications
- IP54 certified with a drop tolerance of up to 4 ft.

**Wall Docking Station**
- Anti-theft locking mechanism
- Rapid device docking and removal (1 second)
- Equipped with 1 x DC-in, expansion I/O, 2 x USB 3.0, 1 x LAN, and 1 x GNSS port

**Desk Docking Station**
- Equipped with 1 x DC-in, 2 x USB 3.0, 1 x LAN, 1 x RS-232, and 1 x VGA port
- Secondary battery charger

**Universal Cover**
- Made from black plastic and PVC
- Measures Approx. 305 x 254.2 x 88.4 mm
- Designed for easy carrying

**Extension Module**
- MSR and smart card reader extension
- I/O extension
- UHF RFID extension

**Carry Bag**
- Made from black PVC

**Hand Strap**
- Made from black PVC
### Regional Service & Customization Centers

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### Worldwide Offices

#### Greater China

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#### Americas

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### Additional Information

- **Company Website:** www.advantech.com
- **Please verify specifications before quoting.**
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