Industrial Peripheral and Software Solutions
Expanding the Power of Business Opportunities

Industrial Flash & Memory Solutions
Wireless ePaper Solutions
Industrial Wireless Solutions
Edge Software, Distribution & Services
Industrial Display Solutions
Industrial Intelligence
Powering the Future
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Advantech was founded in 1983 with headquarters in Taipei, Taiwan. It is known for serving industries such as Industry 4.0, Industrial IoT, Embedded Computing, Medical, Retail, and Logistics.

Advantech is the world's largest IPC (Industrial Personal Computer) company, with a global presence and manufacturing plants worldwide. It has a market cap of $10.6B as of Feb. 2024.

Advantech serves over 8800+ employees globally, and has over 41% market share in the Industrial PC market. It has been ranked as the world's largest IPC company.

Advantech offers services such as complex product lines, flexible & quick production, mature product lines, and cost-effective production.

Advantech's worldwide offices include manufacturing plants in Linkou, Taiwan; Nogata, Japan; and Kunshan, China. It also has design centers in Linkou, Taiwan, and Nogata, Japan.

Advantech's key ecosystem partners include AIC, Eink, Intel, Nordic, and more.

Some key statistics include:
- 1.8 million+ square feet of manufacturing plants
- 1.8 million+ manufacturing plants
- 41% market share as of Dec. 2023
- $10.6B market cap
- 8800+ employees globally
- 9 SMT lines, 16 system lines, and other services

Advantech has partnerships with OMDIA for market share estimates for Industrial PCs: World, 2022 Edition.
Why are Industrial Peripherals so Important for a Successful Solution?

Compatibility & Integration
- Seamless User Experience
- Efficiency and Productivity
- Choice and Flexibility

Longevity Support
- Improved Quality of Life
- Reduced Healthcare Costs
- Social and Economic Benefits

One-Stop Support
- Service Coordination
- Convenience and Efficiency
- Accessibility and Consistency

Total Cost Management
- Comprehensive Cost Oversight
- Optimized Resource Allocation
- Risk Mitigation

5G & Networking
Robotics & AMR
Green Energy & EVs
High-End Medical
Rugged / Mission Critical
Advantech produces its own brand of SSD and DRAM products called “SQFlash” and “SQRAM” for the industrial market. The core concept of SQ products is security and reliability. The SQ team has devoted themselves to providing a reliable solution with industrial level quality to optimize system performance and ensure system stability while also offering customization service and intelligent software. We offer comprehensive products for various markets including servers and products for outdoor applications.
Optimizing AI Platform Performance and Improving Reliability

Comprehensive Security
- UEFI-Based SSD security, software deployment, project support

SQ Manager 2.0
- Smarter software utility to secure your data 24/7 and to help maintain device stability and security

Robust Design
- Advantech SQ delivers durable solutions including anti-vibration, Power Loss Protection and wide temperature support
## Industrial Wireless Solutions

AIWireless

### One-Stop RF + Software Total Wireless Solution
- Antennas
  - Antenna Assessment, Design, and Testing

### Certification Fast Support and Consultation

### Antennas
- Antennas for Wi-Fi 6, 6E, 7, GPS/GNSS, 4G LTE, 5G NR, Bluetooth, and RF cables

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<th><strong>AIW 100 Series</strong></th>
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<td><strong>Wi-Fi 6E / Wi-Fi 7</strong></td>
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AIW is a leading industrial wireless solution provider empowering IoT devices, connecting to edge computing or the cloud via wireless technologies for AIoT. AIW offers diverse module and antenna solutions for different vertical applications and focuses on wireless system integration based with AIW Design-In service.
Wireless ePaper: Transforming Businesses Toward ESG Trend

DeviceOn/ePaper remote management
- >10,000 ePaper devices and ePaper types
- Variety of connectivity (NFC, BLE, Wi-Fi, LTE)
- Utilities, APIs, and sample code ready
- Easy to integrate applications

Device Management
- Remote control
- Monitor reports
- Status monitor

Service Management
- FW OTA
- Image and task delivery
- Scheduling and events

Image Generator Management
- Layout designer utility
- Drag-and-drop image components
- Image processing and generation
Advantech provides hardware- and software-integrated wireless ePaper solutions that accelerate the implementation of a wide range of applications. These solutions, comprise ePaper devices, routers, and DeviceOn/ePaper management software. They are deployed in smart warehouses, factory automation, medical equipment, and public workspaces. Besides the standard products, Advantech also offers Design-In service to create outstanding custom ePaper products for specific applications.
Industrial Display Solutions

Design-In Services
Enhanced Pricing Effectiveness

- High Brightness
- Optical Bonding
- Touch Display Modules

Enrich your supply chain

Vertical-Focused Applications
Target Insights and Tailored Services

- Rugged Design
- Plug and Play
- Comprehensive Product Offerings

Enlarge your product portfolio
Advantech’s 15+ years of expertise helps us deliver cutting-edge Industrial Display Solutions for various sectors, including public information, factory automation, medical facilities, and gaming. Our design-in service offers flexible customization. Advantech is pioneering the areas of optical enhancements, high brightness, optical bonding, and curved touch displays, showcasing our commitment to industry to assist you in enriching your supply chain solutions.

**Industrial Display Solution Provider**

Your Industrial Display Expert

- **Industrial Grade and Quality**
  - Greater durability and higher-quality solutions from Advantech IDS

- **Domain-Focused Display Technology**
  - Value-added solutions
  - Vertical domain-focused designs

- **Longevity and Warranty**
  - 2-year product warranty
  - Optional 3-year extended warranty

- **Real-Time Services from Global Support**
  - Global manufacturing centers in Taiwan, China, USA
  - Branch offices in 23 countries
Empowering Edge Intelligence with Advanced AI and Security Solutions

Advantech excels in AI and IoT Security, providing efficient Edge AI platforms, along with end-to-end solutions for streamlined workflows. Within AIoT, our software provides dynamic support for the changing requirements of AI application development. For IoT Security, Advantech offers a one-stop solution with custom hardware modules, OS fixes, and AI-driven protection. DeviceOn ensures secure AIoT device connectivity and complete lifecycle management. Advantech’s exclusive IEC62443 pre-assessment service, based on HW + SW and VoC certification, offers scalable security solutions for clients at various certification stages.

Edge AI
End-to-End AI Workflow Booster
Edge AI SDK, NVIDIA NVAIE, Intel® Geti™

Azure OpenAI Service

IoT Security
Complete Solution from Firmware to Cloud
Compliant with ISA/IEC 62443 standards

DeviceOn+
AIoT Device Management
Advantech offers Microsoft Windows IoT OS, Trellix Security for IoT, and Acronis Backup and Recovery for use in embedded systems requiring heightened security. We have achieved over 10,000,000+ software license shipments to date. As an authorized Microsoft Global Distributor, our team of specialists is ready to assist in your project design process by providing PowerSuite development tools, ensuring a smooth deployment of Microsoft OS.
Tremendous Support from Outstanding Strategic Partners
Emerging Markets

In the evolving electric vehicle infrastructure, Fast Charging Stations require robust SSDs and wireless connectivity for stability and remote control. Their proliferation addresses market needs with diverse charging capabilities. Meanwhile, in electrical grids, Linux vulnerabilities pose risks. Ubuntu on Advantech computers provides long-term security updates. DeviceOn enhances data security with encrypted transmission and PKI infrastructure, mitigating identity theft. These innovations ensure resilience and efficiency in critical infrastructure.
Built-in PKI Lifecycle Management

Ubuntu

- Leveraging TPM, Ubuntu enables full disk encryption and security hardening, with 10 years of CVE maintenance
- Immutable OS with secure boot and signature checks

AIW-513

- Seamless roaming between rooms with AGVs
- Simplified integration and deployment
- Image persistence during power loss

- Wide temperature support: -40 – 85°C
- High speed, low latency
- Rugged, with coating and underfill to protect against humidity and climate impact

- Front side is IP67-rated, protected against water and dust
- High brightness to provide excellent viewing performance
- Anti-UV solution to sustain a screen’s lifespan under sunlight

DeviceOn

Built-in PKI Lifecycle Management

- Based on its proven secure server-client architecture, the edge orchestration software offers the creation and management of certificates, registries, and validation authority for equipment builders

- Multi-OS support including Android, Linux and Windows
- Universal certification support for global markets
- IP66 waterproof antenna design for outdoor applications
Despite the efficiency of current systems, manual trolleys in production lines struggle to manage numerous orders, hampering accurate data tracking. To improve trolley management, wireless ePaper devices ensure real-time data tracking, reducing errors by 5% per month. Robotics offer round-the-clock efficiency, backed by reliable SSDs. For smart factories, AIW 5G modules offer reliable connectivity to support real-time decision-making to achieve more intelligent, efficient, economical, and safe factory operations. HMI devices are pivotal for communication and control.

However, with the increasing connectivity of factory equipment, cybersecurity risks have emerged. Trellix’s whitelisting solution fortifies devices, while Acronis backup ensures swift recovery, minimizing losses.
- Superior anti-interference capabilities
- PAwR for efficient network management
- Enables real-time data updates

- High endurance to support write-intensive behavior
- SSD controller self-updating data flush firmware to prevent data loss
- Cost-effective solution

- Longevity support for at least 3 years
- Stable touch operation efficiency with resistive touch
- Flexible panel mount and open-frame design to minimize integration efforts

- Prevents unauthorized applications and changes
- Defends against zero-day exploits and APTs without signatures
- Ensures easy setup with low operational overhead

- Supports operating temperatures of -30 ~ 80°C
- Global SKU with FCC, IC, CE, NCC, and TELEC RF certifications
- Supports AIWTOOL software service

- Backs up your entire system, including OS, apps, and files
- Easy to restore data and software to different hardware for compatibility
- Actively prevent ransomware attacks
In healthcare, ePaper solutions streamline real-time patient information display. Modern medical equipment, like Wi-Fi-enabled endoscopes, ensures seamless data transmission. SoftAP mode connectivity is crucial. Medical testing equipment aids disease investigation, ensuring comprehensive patient care. In industries requiring stability, Microsoft’s IoT OS offers security and support. Advantech recommends AI model training software for medical labs, while NVIDIA AI Enterprise facilitates smooth deployment. Performance scores ensure optimal computing environments.
**NVIDIA AI Enterprise**

- A licensed service bundled with AI training server and inference edge

**Intel®.Geti™ Computer Vision AI Training Software**

- Enables anyone to build models rapidly and accelerate innovation across their businesses with AI.

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**EPD-258 EPD-662 EPM-203 SQF-C8M 930 AIW-173 AIW-513 IDK-1115WP IDK-1107**

- Shows medication information while cart is delivering medicine
- Great anti-interference and PAwR to organize a 10,000-PC network
- Ultra-low power consumption for years of longevity

- DBDC (Dual band dual concurrent) feature
- Ultra high speed and extreme low latency of Wi-Fi 7 technology for real-time video streaming applications
- Universal certification support

- PCIe Gen4 x4, M.2 2280, 480GB ~ 3.8TB
- Speed of up to 7.2 GB/s (read), 6.3 GB/s (write)
- Advanced device security
- feature for AES 256, OPAL 2.0

- Industrial display kit with projected touch integrated for medical glove operation
- EMI noise immunity to avoid interference
- Flexible spatial mechanical design with LVDS and USB interfaces

- Secures patient data and complies with HIPAA regulations
- Offers rapid out-of-the-box setup with advanced lockdown features
- Deploy secure medical devices with enterprise-grade security

- Simple setup, no network or power cables needed
- Bi-stable ePaper enhances patient comfort
- Bedside cards cut staffing needs, boost doctor-patient rapport

- 85°C
- -40°C

- 85°C
- -40°C

- SQF-C8M 930
- AIW-173 AIW-513
- IDK-1115WP IDK-1107

- Microsoft Windows IoT OS

- SQF-C8M 930
- AIW-173 AIW-513
- IDK-1115WP IDK-1107

- Microsoft Windows IoT OS
In the intricate world of industrial and aerospace applications, where stability and precision are essential, AIW provides ruggedized wireless solutions for seamless data transmission and precise positioning. For drone applications, AIW GPS modules ensure accurate positioning in harsh environments. SQFlash & SQRAM can effectively provide reliable and high performance for critical applications in aircraft systems to guarantee the safety and reliability of aviation technology. Meanwhile, Microsoft’s IoT OS, with a 10-year support commitment, enhances device stability and security, crucial in military settings.
**SQR-SD4E**
- Built-in security features for data protection and system integrity
- Compatibility with industry standards within the existing ecosystem
- 10-year LTSC ensures device security and stability

**SQF-S25 840V**
- Supports industrial operating temperatures (-40 ~ 85°C)
- Supports update rate up to 50Hz
- Supports dead reckoning function

**Microsoft Windows IoT OS**
- Supports industrial operating temperatures (-40 ~ 85°C)
- Supports update rate up to 50Hz
- Supports dead reckoning function

**AIW-213**
- DDR4 260-pin 3200 SODIMM
- Original Micron automotive-grade IC
- Default built-in sidefill technology

**AIW-520**
- 2.5" Power Loss Protected SATA SSD
- Super Cap stabilizes the voltage
- Protects against data loss during sudden power outages

**Trellix Whitelisting Solution**
- Insider threat mitigation, no unauthorized changes
- Provides zero-day comprehensive security
- Reduced overhead ensures reliable system in critical scenarios

**Windows**
- Built-in security features for data protection and system integrity
- Compatibility with industry standards within the existing ecosystem
- 10-year LTSC ensures device security and stability
Leading Technologies
Global leader in the fields of IoT, intelligent systems and embedded platforms.

Global Service Team
Dedicated regional service team to ensure local services and support with flexibility and efficiency.

Partner Ecosystem
Streamlined design-in services shorten design and integration cycles, ensuring time to market.

Software Intelligence Support
Seasoned software service team offers experienced technical support to accelerate product deployment.

One-stop Shop
Reliable one-stop-shop customer-centric and scenario-based solutions and services.

Regional Service and Customization Centers

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Worldwide Offices

Asia Pacific

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