Industrial Peripheral and Software Solutions Expanding the Power of Business Opportunities





Wireless ePaper Solutions



Industrial Wireless Solutions



Edge Software, Distribution & Services



Industrial Display Solutions

Industrial Intelligence Powering the Future

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1.8 MILLION + sq. ft.

MANUFACTURING PLANTS

Linkou, Taiwan

INDUSTRIES SERVED



- 9 SMT lines, 16 system lines Engineering sample services
- Complex product lines

Kunshan, China

Flexible & guick production

Industrial Peripheral Shipments (as of Dec. 2023)

10,000,000+ Industrial SSD & DRAM 1,300,00+ Wireless Modules 1,400,000 Displays 20,000+ Industrial ePaper installed 10,000,000+ Software Licenses

\$10.6**B MARKET CAP** (USD) (Feb., 2024)

WORLD'S LARGEST **IPC COMPANY**

Advantech IPC WW Market Share

Advantech Other IPC Companies

Source: OMDIA - Market Share Estimates for Industrial PCs: World, 2022 Edition





- 12 SMT lines, 13 system lines Chassis design & production
- Mature product lines Cost-effective production

Nogata, Japan



 4 SMT lines, 13 system lines Japan design center, CTOS service, logistics center, repair center



WORLDWIDE OFFICES





- Manufacturing 3 On-site service
- Design centers 11
- CTOS centers 16
- Repair centers 17
- Logistics centers 20

More than 90 offices globally!





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





Robotics & AMR



Green Energy & EVs



High-End Medical



5G & Networking

Industrial SSD/Memory Provider with Expert Customized Services



< 800 DPPM Outstanding Quality

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







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.



Industrial Wireless Design-In Services

Assessment

- Wireless solution selection
- System link budget
- Product spec. definitions

RF & Antenna Design

Module and antenna selectionCustomized antenna design

FW & Integration

- Multiple OS driver support
- De-sense troubleshooting

Validation Certification

- Wireless performance testing
- Certification support

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

ePaper Design-In Services



Select a Suitable Model for Quick Kick-off

- Diverse STD model options for customization
- Multi-sourced to meet requirements
- Streamline development via standard products



Dedicated PM for Project Management

- Dedicated PM from RFQ to mass production
- Stringent NPI development
 process
- Products and component lifecycle management



Excellent Technical and R&D Team Support

- H/W (EE, ME, ID) team for industrial-grade quality
- S/W (Cloud, APPs, FW, API) team by demand
- RF (NFC, BLE, Wi-Fi, LTE) team for antenna and EMI service
- · Fine-tuning and verification

Outdoor

Battery

Wireless

milaot

Open-frame



Feasible & Verified NPI Procedures

- Comprehensive DQA test
 flow
- Reliability and component compatibility tests
- RF, EMI, ISO, UL certification services



Reliability Enhancement of Global Operations

- Global certification service
- Manufacturing services
- Local PSM and FAE support
- Logistics management
- Warranty service

Advantech provides hardware- and softwareintegrated 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.

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Industrial Display Solutions

Enrich your supply chain

Design-In Services Enhanced Pricing Effectiveness Enlarge your product portfoalio

Vertical-Focused Applications Target Insights and Tailored Services



Rugged Design

- Plug and Play
- Comprehensive Product Offerings

- High Brightness
- Optical Bonding
- Touch Display Modules

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.



Enhancing Efficiency and Security Through Software Distribution Solutions

Security Levels

Acronis Backup & Recovery

- Complete backup and recovery
 - Centralized remote management
 - Acronis Active Protection

Proactive Protection

Trellix Whitelisting

Advanced

Backup

- Application control
- Change control
- ePolicy Orchestrator

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.

Basic Defense

Windows

Microsoft

- BitLocker
- · Windows Defender
- · Windows Security Update

Exclusive Advantech Value-Added Tools



Tremendous Support from Outstanding Strategic Partners





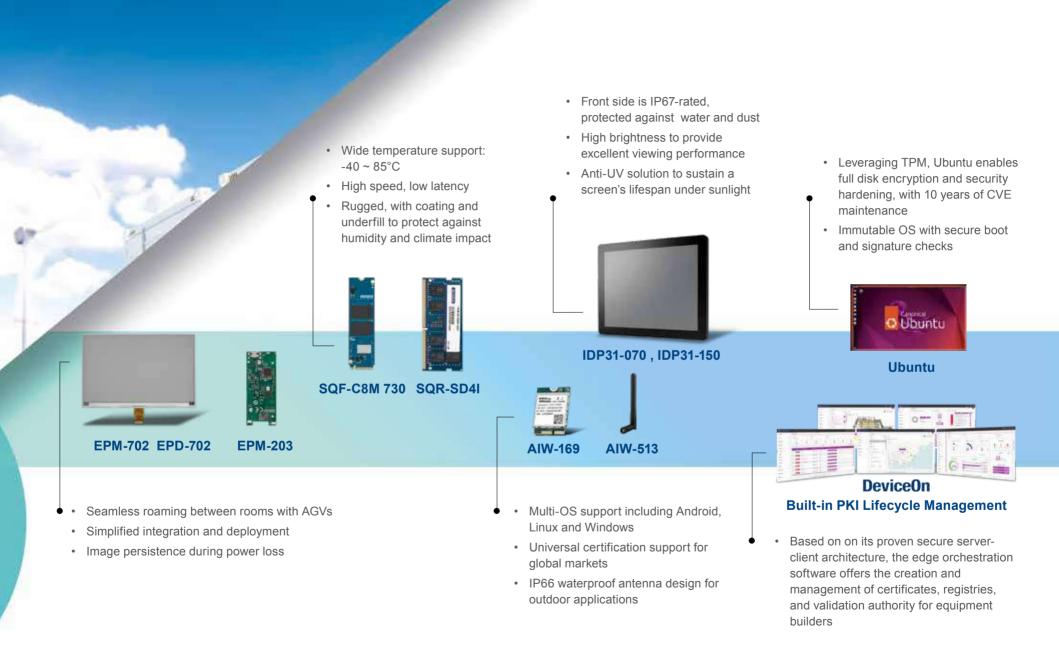
Emerging Markets

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. CHARGE

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Factory Automation

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.



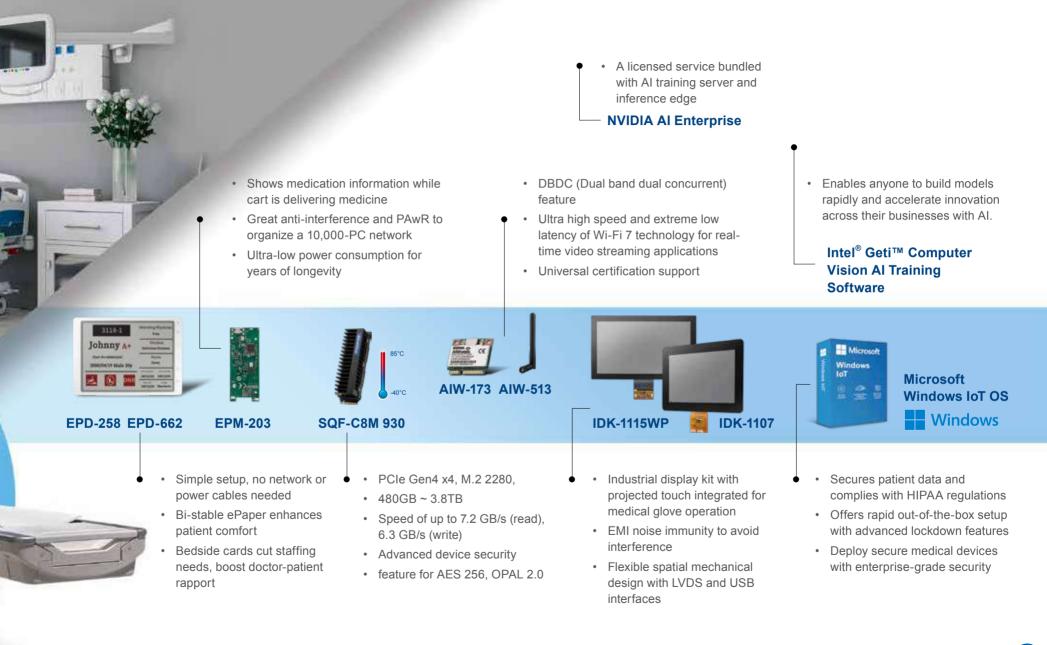
- · PAwR for efficient network management
- · Enables real-time data updates

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

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

High-End Medical

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.



Rugged Mission Critical

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.

unauthorized changes Provides zero-day comprehensive security • DDR4 260-pin 3200 SODIMM Reduced overhead ensures reliable Original Micron automotive-grade IC system in critical scenarios Default built-in sidefill technology Trellix Trellix Whitelisting Whitelesting Solution Solution 린 폰 _ 4 ABARTICK SQR-SD4E SQELash Microsoft Microsoft Windows Windows IoT OS Windows **AIW-520 AIW-213 SQF-S25 840V** Supports industrial operating 2.5" Power Loss Protected Built-in security features for data temperatures (-40 ~ 85°C) SATA SSD protection and system integrity • Supports update rate up to 50Hz • Super Cap stabilizes the · Compatibility with industry standards voltage within the existing ecosystem Supports dead reckoning function Protects against data • 10-year LTSC ensures device security loss during sudden power and stability

outages

• Insider threat mitigation, no

Memo

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Memo

Industrial Peripheral and Software Services



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 customercentric and scenario-based solutions and services.

Regional Service and Customization Centers

China Kunshan 86-512-5777-	-5666	Taiwan Taipei 886-2-2	792-7818	Netherla	nds Eindhoven 31-40-267-7000	P	oland Warsaw 00800-2426-8080		USA Milpitas, CA 1-408-519-3898
Worldwide	Offices								
Asia Pacifi	с	Asia Paci	ific			Europe			
Taiwan		Japan		Australia		Netherlands		Russia	
Toll Free Taipei & IoT Cam Taichung	0800-777-111 1pus 886-2-2792-7818 886-4-2372-5058	Toll Free Tokyo Osaka	0800-500-1055 81-3-6802-1021 81-6-6267-1887	Toll Free Melbourne	1300-308-531 61-3-9797-0100	Eindhoven Breda	31-40-267-7000 31-76-523-3100	Moscow St. Petersburg	8-800-555-01-50 8-812-332-57-27 8-921-575-13-59
Kaohsiung China	886-7-392-3600	Nagoya Nogata	81-0800-500-1055 81-949-22-2890	<i>India</i> Bangalore Pune	91-94-4839-7300 91-94-2260-2349	Germany Toll Free Munich	00800-2426-8080/81 49-89-12599-0	Czech Republic Ústí nad Orlicí	420-465-524-421
Toll Free Beijing Shanghai	800-810-0345 86-10-6298-4346 86-21-3632-1616	Korea Toll Free Seoul	080-363-9494/5 82-2-3660-9255			Düsseldorf France	49-2103-97-855-0	Ireland Galway	353-91-792444
Shenzhen Chengdu	86-755-8212-4222 86-28-8545-0198	Singapore				Paris	33-1-4119-4666	Americas	;
Hong Kong	852-2720-5118	Singapore	65-6442-1000			Italy		North America	
		<i>Malaysia</i> Kuala Lumpur Penang	60-3-7725-4188 60-4-537-9188			Milan UK	39-02-9544-961	Toll Free Boston Chicago	1-888-576-9668 1-949-420-2531 1-888-576-9668
MIDDIE Eas	t and Africa 072-2410527	Thailand	00-4-337-9186			Newcastle London	44-0-191-262-4844 44-0-870-493-1433	Cincinnati Irvine Milpitas	1-513-742-8895 1-949-420-2500 1-408-519-3898
Turkey Turkey-Bursa	90-212-222-0422 90-224-413-3134	Bangkok	66-02-2488306-9			Spain Madrid	34-91-668-86-76	Ottawa Brazil	1-815-433-5100
		Vietnam Hanoi Hochiminh	84-24-3399-1155 84-28-3836-5856			Sweden Stockholm	46-0-864-60-500	Toll Free São Paulo	0800-770-5355 55-11-5592-5367
		Indonesia				Poland		Mexico	
		Jakarta	62-21-751-1939			Warsaw	48-22-31-51-100	Toll Free Mexico City	1-800-467-2415 52-55-6275-277