

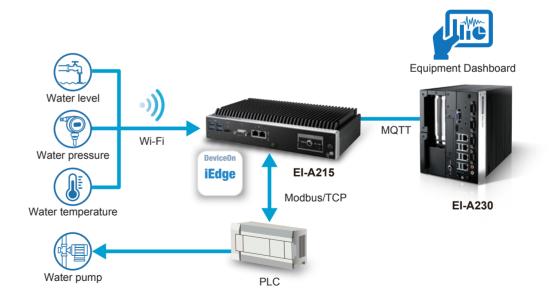


Region China

Real-time Monitoring Water Circulation Systems

Using IoT technology to simulate and optimize collected information helps the energy industry monitor, diagnose, and augment water circulation systems and heat exchange equipment. In addition, it provides real-time operation optimization and adjustment, enables the scientific management of circulating water, rations water use, and reduces fouling rates.

- Reduce human errors and increase efficiency with integrated monitoring system
- · Supports multiple communication protocols, data collection, and dashboard visualization
- Real-time remote monitoring and control for equipment at the edge



Region Taiwan

Al Facial Recognition for School Pandemic Prevention and Containment

A Taiwanese system integrator specialized in school IT and surveillance system integration was developing AI-based epidemic prevention systems. Advantech Ei-A100 worked reliably to detect body temperatures and mask wearing. Following installation, the system was capable of sending the names of students with high body temperatures or without face masks to school staff using LINE push notifications. Advantech helped this SI overcome budgetary and technical challenges — creating a total AI-based facial recognition and thermal imaging solution for schools in Taiwan.

- Al engine with 99.8% accuracy rate
- Built-in APIs quickly integrate with school management systems, student information databases, and LINE push notification systems
- High visual recognition performance via 2 x Intel[®] Movidius™ VPUs





Region Japan

Efficient Remote Control and Monitor Water Gates

Sluise gates in Nogata City, Fukuoka Prefecture, used to require workers to open them manually. This city decided to introduce AI technology that remotely controls water gates, improving efficiency and reducing labor costs. Advantech cooperates with SI to monitor water level changes and control gates using DeviceOn/iEdge. Advantech's AIR-100 uses AI computing to record water velocity and flow direction. This helps avoid flooding and other disasters.

- Fully integrated system collects and analyzes sensor information and creates dashboard
- Make informed water level predictions and smart control water gates using Al models
- Built-in Intel[®] Movidius[™] Myriad[™] X MA2485 VPU up to 4 TOPS
- Reduce human resources requirements



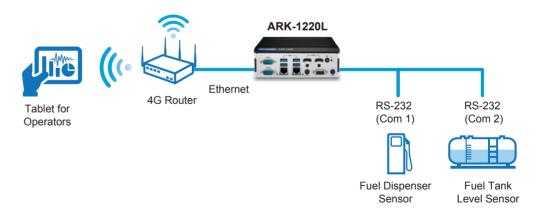


Region Indonesia

Remote Fuel Monitoring for Microsite Fuel Stations

Indonesia is the largest motor vehicle market in Southeast Asia. Therefore providing fuel stations across the country — including remote areas — is crucial. Advantech's customer adopted the ARK-1220L solution in their container fuel station. The ARK-1220L controller collects fuel storage and consumption data from the site and sends it to a central office. This enables the fuel service company to optimize deliveries and use detailed visualization tools.

- · Small footprint with DIN-rail mount for easy installation into cabinets with limited space
- Essential I/O for the connecting to various devices
- · Compatibility with wireless modules to send data over internet

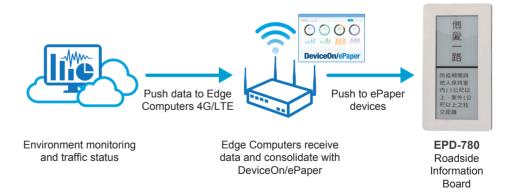




Environmentally Friendly, Ultra Low-power Roadside Information Board

Advantech's wireless 26" ePaper solution has joined a selection of smart lighting applications in Kaohsiung, Taiwan. These innovative large format ePaper displays simultaneously convey traffic information and government announcements. Advantech's signage panels are installed in public spaces where they display emergency/public service announcements and directions. These excellent solutions are capable of performing in bright daylight without using extra power.

- · Easy cable-free installation
- Sunlight readable capabilities for outdoor applications
- Supports IEEE 802.11 ac/b/g/n, LTE Cat.1 and USB interfaces





Region Taiwan

Al-driven License Plate Recognition Improves Parking Lot Operation

Traditional rule-based license plate recognition can fail due to obscure camera angles or weak ambient lighting. Al technology helps solve these problems. Advantech's AIR-101 Al system precisely scans and analyzes vehicle plates and provides automatic parking lot access. This system uses built-in Intel[®] Movidius™ VPUs and Al algorithms provided by our ISV partner. These quickly conduct accurate license plate recognition that improves parking experiences and lot efficiency.

- Intel Atom[®] CPU with two Intel[®] Movidius[™] VPUs optimize computing workloads and saves costs
- Local 3rd party ISV vendor software cooperation
- Supports wide range power input and temperatures



Edge* Solution High-lights



Edge Intelligence Software and Cloud

WISE-DeviceOn improves management, enables real-time remote access, and facilitates efficient operation. It leverages the Cloud and integrated domain-focused application software



Al Software and Inference

Empower AI at the edge and realize real-time intelligence in AGV/drones, defect inspection, traffic monitoring, and medical imaging applications



Wireless Connectivity

Demystify AloT and leverage 5G/Wi-Fi 6 to enjoy faster speeds, millisecond latency, and reduced network congestion

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Taiwan Taipei 886-2-2792-7818

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Poland

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

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Toll Free 0800-777-111 Taipei & IoT Campus 886-2-2792-7818 Taichung 886-4-2372-5058 886-7-392-3600 Kaohsiung

China

Toll Free 800-810-0345 Beijing 86-10-6298-4346 86-21-3632-1616 Shanghai Shenzhen 86-755-8212-4222 86-28-8545-0198 Chengdu 852-2720-5118 Hong Kong

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Seoul Singapore Singapore

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82-2-3660-9255

Malavsia

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Thailand Bangkok

66-02-2488306-9

Vietnam

Hanoi 84-24-3399-1155 84-28-3836-5856 Hochiminh

Indonesia

Jakarta 62-21-751-1939

Australia

Toll Free 1300-308-531 Melbourne 61-3-9797-0100

India

91-94-4839-7300 Bangalore Pune 91-94-2260-2349

Europe Netherlands

Eindhoven 31-40-267-7000 31-76-523-3100 Breda

Germany

Toll Free 00800-2426-8080/81 Munich 49-89-12599-0 Düsseldorf 49-2103-97-855-0

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Poland

Warsaw 48-22-31-51-100

Russia

Moscow 8-800-555-01-50 St. Petersburg 8-812-332-57-27 8-921-575-13-59

Czech Republic

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