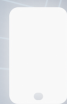




COMPANY PROFILE

Industrial IoT Solution

"Your Partner in Smart Manufacturing"



IIOT



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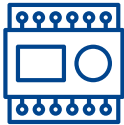
ADVANTECH Industrial IoT
Premier Partner

About EFOREL

Providing Solutions to Help Digital Transformation

PT. Eforel Citra Utama has been the leading industrial PC and automation devices distributor in Indonesia since 1994. We offer a total solution that matches your business needs for a **seamless and successful digitalization project**

In an era where digital transformation is inevitable, we are here to support every industrial sector to grow, sustain and gain competitive advantages. Our commitment to providing the **smartest solutions for business owners in Indonesia**



1994 - 2012

Industrial Computer Product

We provide a range of Industrial PCs designed for maximum durability in the most challenging industrial environments and high quality



2012- 2018

Industrial Automation Product

As a distributor of industrial automation, we help you design and implement the perfect automation system for your company's needs.



2018 - NOW

Industrial IoT Solution

We are committed to providing solutions that not only meet but exceed industry expectations with leading-edge technology and unparalleled support

Eforel Vision

To become a trusted distributor of industrial computers and automation equipment in Indonesia by continuing to expand market share & sales value sustainably

Our Misions

To build and maintain a good cooperation and partnership with customers, we :

01

Provide excellent
quality technical
supports and services

02

Continuously
develop skills and
knowledge

03

Keep good
communications
with customers



Project References

Focusing Business

Customers

Project Name

Solutions

Factory Automation and Manufacturing Automation

- Canned Tuna Factory
- Pharmaceutical Industry
- Cable Car Factory
- Feed Factory
- Zipper Factory

- OEE and EMS
- Water Treatment
- IPC Replacement
- SCADA PC Replacement
- OEE

- Web Base OEE and EMS with free Client
- RTU + Web Base SCADA
- Industrial Fan less PC
- Industrial PC Rack mount
- Web Base OEE connect existing PLC

Power and Energy Substation Automation

- PLN
- Schneider Electric
- PJB

- Substation SCADA Integration
- Substation SCADA Integration
- Water Treatment
- PC Replacement

- Industrial Gateway, RTU
- Industrial Gateway, Workstation IPC, Server IPC, HMI IPC.
- Web Base SCADA + RTU
- Replacement commercial PC to Industrial PC

Transportation Port Terminal

- Transjakarta
- KRL
- KAI
- Pelindo

- Gate ticketing and Server PC
- Vending Machine
- Signaling
- Fleet Management

- Industrial Fan less PC
- Industrial Fan less PC and Industrial touch panel monitor
- Industrial Fan less PC Server
- Industrial Tablet

Mining OIL and GAS

- KPP
- PERTAMINA

- Fleet Management
- CEMS

- Mobile Rugged PC
- Web Base SCADA + Remote IO

Our Customer



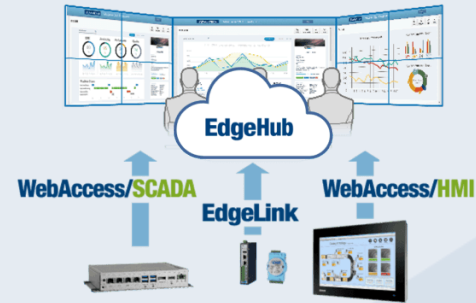
Start Your Digital Transformation

Manufacturing in the past has focused on lean and just-in-time production processes, emphasizing cost reduction, waste elimination, and increased efficiency of the entire organization through customer demand-pulling processes. Nowadays, digital technology provides fundamental value that presents commercial value through the immediacy and accuracy of information driving rapid responses and decision-making. Many manufacturers who have progressed through Industry 2.0 (automation) and Industry 3.0 (informatization) are now preparing to move toward Industry 4.0 (intelligentization)

Focused Sectors	<div>     </div> <div> iFactory Industrial Equipment Manufacturing Energy & Utilities Transportation </div>	<div>  WISE-IoT </div> <div> EdgeSync 360 </div> <div>  EdgeHub </div> <div>  DeviceOn </div> <div>  WebAccess/SCADA </div> <div>  WebAccess/CNC </div> <div>  EdgeLink </div> <div> XNavi </div> <div> AINavi </div> <div> VisionNavi </div> <div> HMINavi </div> <div> DAQNavi </div> <div> MotionNavi </div>
Edge computing	<div>       </div> <div> Servers and IPCs AI Inference Solutions Industrial HMI Fanless Embedded PCs Automation Controllers Domain-focused IPCs </div>	
Industrial communication	<div>       </div> <div> Industrial Ethernet Switches Intelligent Protocol Gateways Industrial Media Converters Serial / USB Communications Cellular Routers & IoT Gateways Wireless APs/Clients </div>	
Edge Sensing	<div>     </div> <div> Wireless I/O and Sensors Remote I/O DAQ & Signal Conditioner EtherCAT I/O Systems </div>	

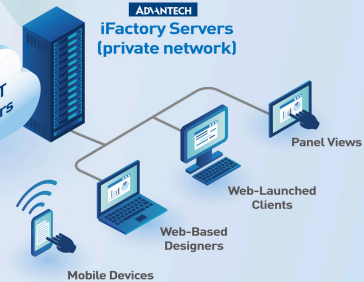
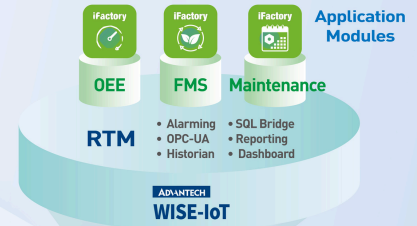
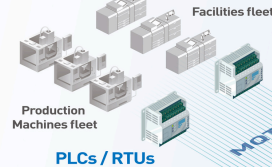
WebAccess/SCADA Software

WebAccess/SCADA is a 100% web-based SCADA system which not only acquires and stores data, but visualizes it with a HTML5-based intelligent dashboard.



Main Feature:

- Enables 100% web-based remote engineering, monitoring, and control
- Driver support for major PLCs, PACs, I/O modules, CNCs, network switches, and computer platforms
- Supports standard protocols including Modbus, OPC UA, OPC DA, Ethernet/IP, DNP3, SNMP, and BACnet
- Easily integrated with third-party software (e.g., MES and ERP) via open interface web services (RESTful API and SignalR)
- abase restore mode for automatic data access with improved query speeds
- Soft license online authentication

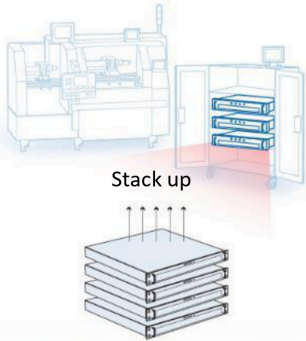


Industrial Computer Series

Rack Mount (2U)



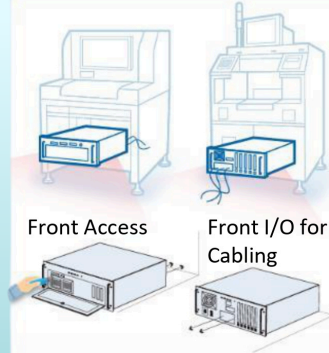
3 Slots



Rack Mount (4U)



7 - 18 Slots



Tower

IPC-7130



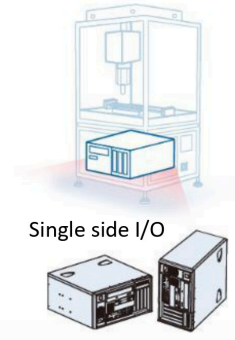
4 or 7 Slots



Wallmount/Desktop

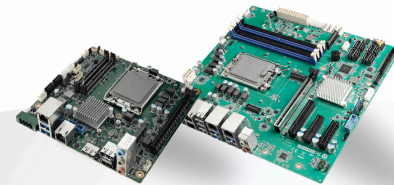


5 or 7 Slots



Industrial Motherboard

Ranging from UTX motherboards, Mini-ITX motherboard and Micro ATX motherboard are ideal for customers who are used to using commercial off-the-shelf products but require expansion and industrial features such as longevity and reliability.



Industrial HMI and Monitors



Machine Builder



Packaging



Automotive



Food & Beverage



Pharmaceutical



Oil & Gas



Machine Monitor Control



Energy Control Cabinet



Production Line Visualization



Central Control Visualization

WebAccess/SCADA

HMINavi

EdgeSync 360



CODESYS



THINMANAGER
A ROCKWELL AUTOMATION TECHNOLOGY

3rd Party Software



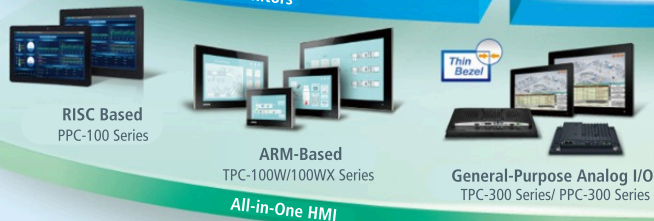
Industrial Monitors



Modular HMI & Monitors



Configurable Panel PC & MotherBoard



All-in-One HMI



Domain-Focused HMI

Advantech HMI and Panel PC series contains Modular HMI, All-in-One HMI, Configurable Panel PCs, Domain-Focused HMI, and Industrial Monitors tailored for smart factory applications.

RS-485 I/O

RS-485/USB I/O

Ethernet I/O

OPC UA I/O

Modular I/O

Robust & EMC Level 4

Daisy Chain



ADAM-4000



ADAM-4100



ADAM-6000



ADAM-6200



ADAM-6300



ADAM-5000 4/8 Slots
Modular I/O

Modbus RTU

Modbus TCP

OPC UA

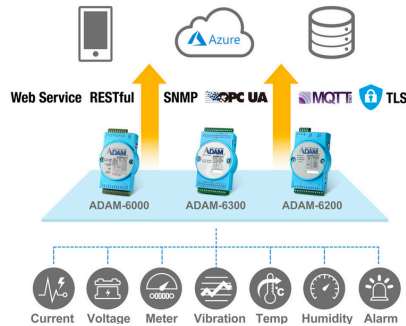
Modbus RTU / TCP

Feature Remote I/O Module

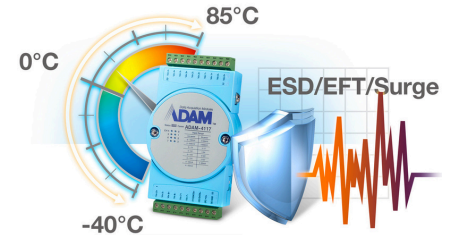
Web Service RESTful API MQTT SNMP



Wide Range of Remote I/O
Modules to Meet Diverse Needs

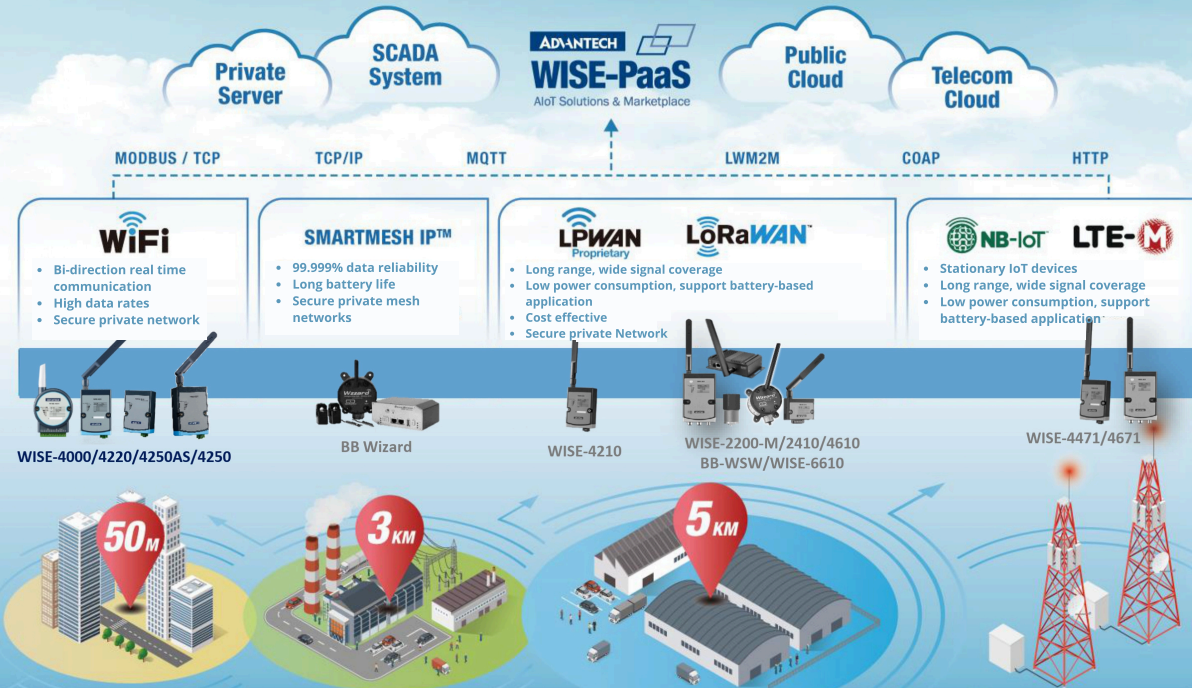


IoT Protocols Ready for Cloud
Services and IoT APPs



Robust and Secured Design for
Wide Industrial IoT Applications

Industrial Wireless Solutions



Gateway, Controller and AP

Proprietary LPWAN (SUB-G) Access Point LoRaWAN Gateway RFID Gateway

Wireless I/O Module

WiFi 2.4GHz/5GHz I/O Module Proprietary LPWAN (SUB-G) I/O Module LoRaWAN I/O Module

NB-IoT/LTE-M I/O Module Wireless Sensor Nodes & Kits

IoT Intelligent Sensor

LoRaWAN Smart Condition Monitoring Sensor Stack Light Monitoring Sensor

With developments in wireless and cloud technologies, more and more remote monitoring applications have adopted cloud services for wide area management systems. To shorten the gap between the field site data and the cloud, Advantech provides wireless I/O and sensor modules that can get and pass data directly to the cloud by utilizing wireless communication technology, such as Wi-Fi, 4G, LoRaWAN, NB-IoT/LTE-M, and proprietary LPWAN (Sub-G) through IoT protocols.

Industrial Ethernet Switches

Advantech's industrial Ethernet switch solutions provide an abundance of options, including Gigabit Ethernet switches.



Feature Highlights



Highly Versatile Switch Products



Rugged Communication Solutions



Plug-and-Play



**Reliable Layer 2
Managed Switches**

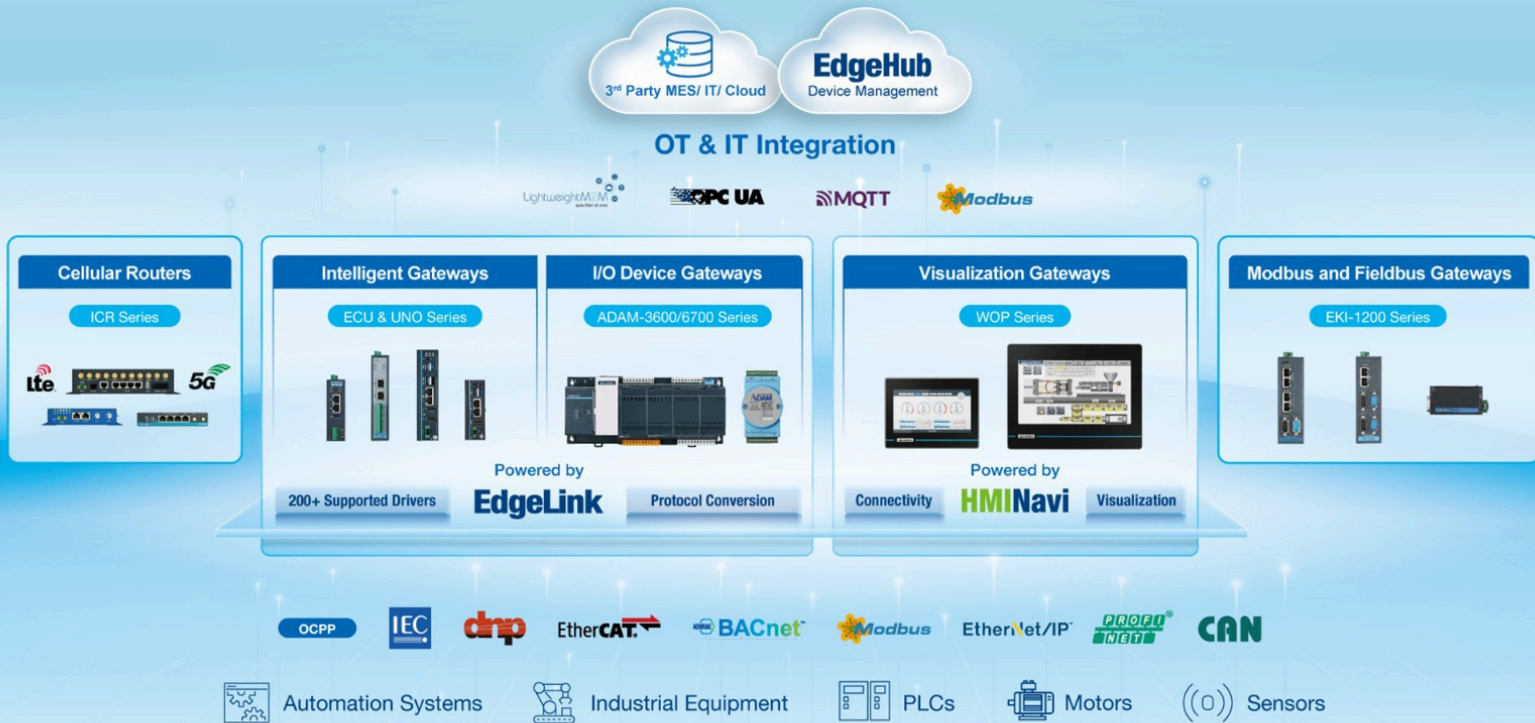


**Supports PoE
(Power over Ethernet)**



**Fiber Connectivity for Long
Transmission Distance**

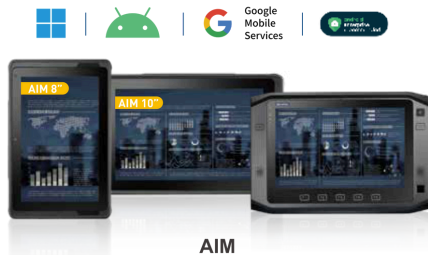
Industrial Gateways



Advantech provides different types of industrial gateways with data monitoring software to meet your needs for data management. These devices, serving as gates between multiple networks, bridge the gap from the field to cloud. Their flexible communication protocols support diverse applications in a wide range of industries. Advantech industrial gateways can be classified into five categories

Industrial Tablet Solutions

Equipped with application-oriented peripherals



AIM

 All Day Battery Life

 Seamless Connectivity

 Rugged Design
Water / Dust / Drop Protection

 Sunlight Readable

Peripherals



Extension Modules



Docking Solution



Battery Charging Station



Accessories

Application Scenarios



Retail & Hospitality



Manufacturing



Logistics & Warehousing



Field Service

In-Vehicle Edge AI Computers

Tough, Smart, Reliable, and Versatile in Harsh Scenarios



TREK



Scalability

The modular design allows the system I/O to be extended to facilitate the integration of optional modules, making it easy for customization and configuration.



Ruggedness

The accumulation of in-depth in-vehicle industry knowledge has led to the creation of a rugged system that fits challenging user scenarios and reduces maintenance costs.



Simplicity

TREK-60N operates just like a multi-box system to offer car power protection, Intel-powered computing, NVIDIA-powered computing, a PoE switch, and more.



In-Vehicle Specialization

- Enables IPxPT
- 12V/24V certified car power
- Zero data loss CANs & CAN Open
- Intelligent vehicle power management mechanism



Connectivity

- Expansion module for 4G/5G, WLAN & V2X
- Embedded uBlox GPS



Ruggedized

- 5M3, MIL-STD-810
- Fanless wide temperature design (-30C ~ 70°C)*
- IP65 with I/O cover

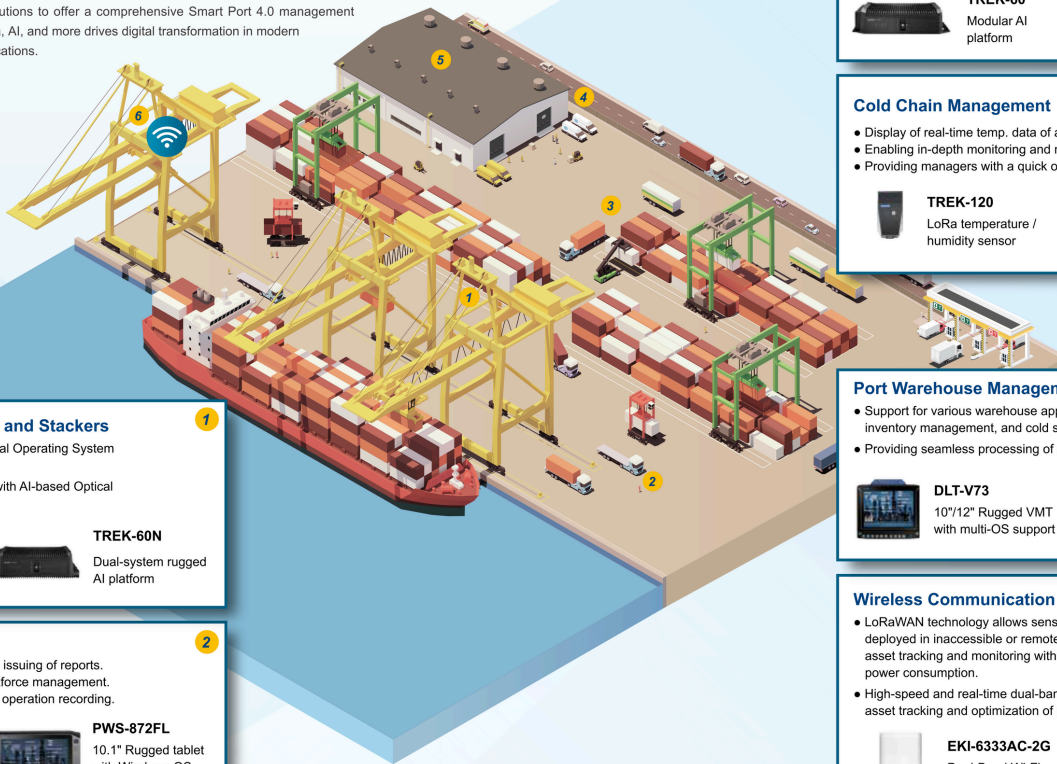


Best-Fit I/O

- One cable to pair with the driver console (TREK-30x)
- Dual display output & dual audio output
- 10 x LAN (TREK-60)/ 6 LAN (TREK-60N)
- Rich I/Os (COM, isolated DIO, USB)

Container Port

As cargo ships grow in size and volume, global container ports are challenged with daily operations, goods handling, and equipment management. To address these issues, ports are increasingly adopting innovative and automated solutions for enhanced efficiency, safety, and security. Advantech, a leading IoT solutions provider, leverages its expertise in industrial automation and smart city solutions to offer a comprehensive Smart Port 4.0 management solution. Our integration of IoT, 5G, big data, AI, and more drives digital transformation in modern ports, fostering innovation for smarter applications.



Intelligent Connected Cranes and Stackers

- Streamlined port operations with Terminal Operating System (TOS)
- Automated container information entry with AI-based Optical Character Recognition (OCR) system



DLT-V72 Facelift
10"/12" Rugged VMT
with Navis certification



TREK-60N
Dual-system rugged
AI platform

Yard Field Service

- Enabling efficient cargo inspections and issuing of reports.
- Streamlining of port workflows and workforce management.
- Support for real-time asset tracking and operation recording.



AIM-75S
8" Industrial-grade
tablet with GMS and
Android OS



PWS-872FL
10.1" Rugged tablet
with Windows OS

Truck Management

- Camera system that can automatically identify vehicle plate, chassis number, and container number.
- In-vehicle computers on trucks transfer all the necessary data in real time to the gate computer, including plate number, driver's license, and container number.



TREK-60
Modular AI
platform



TREK-773
7" AIO ultra-rugged
mobile data terminal

Cold Chain Management

- Display of real-time temp. data of all sensors installed in the location.
- Enabling in-depth monitoring and management of the end-to-end cold chain.
- Providing managers with a quick overview of the KPI of different locations.



TREK-120
LoRa temperature /
humidity sensor



LEO-S57
LoRaWAN temperature
probe sensor

Port Warehouse Management

- Support for various warehouse applications, such as order picking, inventory management, and cold storage.
- Providing seamless processing of goods and storage for port customers.



DLT-V73
10"/12" Rugged VMT
with multi-OS support



AIM-68S
10.1" Industrial-grade
tablet with Windows OS

Wireless Communication

- LoRaWAN technology allows sensors and IoT devices to be deployed in inaccessible or remote parts of the port, enhancing asset tracking and monitoring with its long-range capabilities and low power consumption.
- High-speed and real-time dual-band Wi-Fi and LTE enable real-time asset tracking and optimization of port operations.



EKI-6333AC-2G
Dual-Band Wi-Fi
AP/client



WISE-6610
LoRaWAN gateway

Wireless Vibration Monitoring Solution for Paper Mills

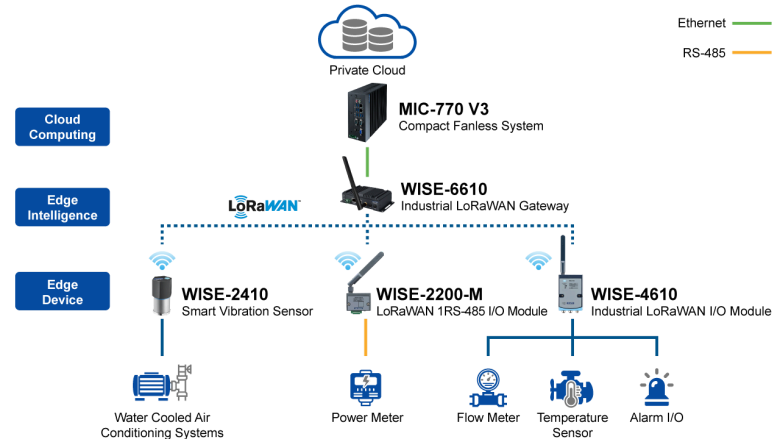


Conclusion

WISE-2410 and WISE-6610 are Advantech product solutions based on the LoRaWAN long-distance, high-penetration, and low-power consumption wireless technologies that are highly integrated with industrial control applications.

This solution achieves remote device monitoring and preventive diagnosis through the acquisition of equipment vibration data. The solution greatly reduces equipment downtimes that cause production losses and industrial accidents.

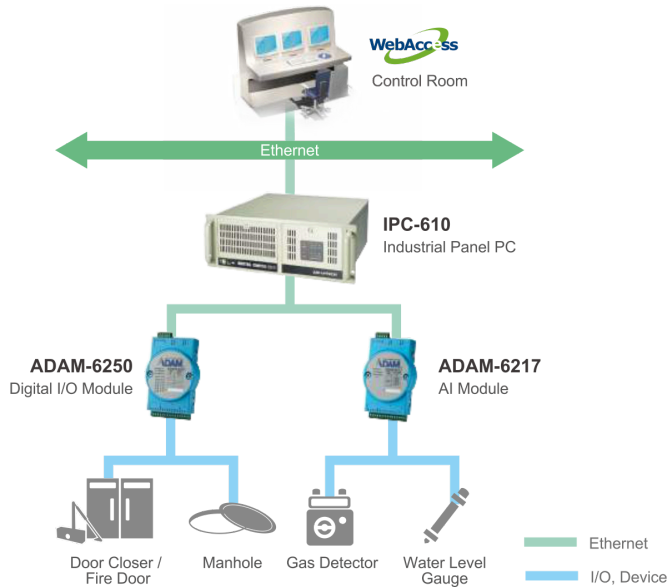
LoRaWAN Facility Monitoring Enhances Hospital Operational Efficiency



Conclusion

The LPWAN technology and plug-and-play product design ensure the stability and quick and easy deployment of the facility monitoring system. In addition, the WISE-2410 and WISE-4610 are battery-powered and support industrial control protocols, enabling high-performance operation in areas where power supply is not feasible, and supporting a wide range of application requirements, including RTU RS-485 and TCP support for SCADA systems.

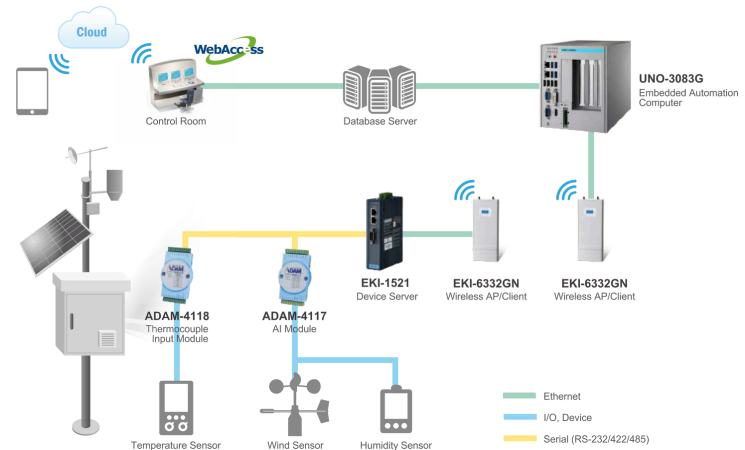
Stable and Reliable Equipment Operation Improves Overall Safety



Conclusion

The platform is easy to operate and comprehensively simulates actual field operations in the monitoring of tunnel environments. Furthermore, the stable and reliable equipment operation has improved overall system safety with a shortened system development time. Finally, maintaining system stability has enhanced security and reduced maintenance costs in the long run.

Real-Time Monitoring Solution Simplifies Field Operations



Conclusion

Advantech's real-time monitoring solution for this wind farm provided complete functionality that maximized the plant's operational efficiency. The intelligent gateway performed suitably in obtaining on-site data, the wireless communication configuration meant that complex wiring difficulties were avoided, and the cloud server enabled big data processing and fault feature extraction. The wind power monitoring solution has helped the plant rapidly implement the project and save time by not having to perform compatibility testing and debugging.

Wallmount IPC



ATX Motherboard



Fanless Computer



Industrial Monitor



Vehicle Mount PC



IPC-7130

Desktop/Wallmount Chassis for ATX/MicroATX Motherboard with Dual Hot-Swap 3.5" Drive Bays

AIMB-787

LGA1200 10th Generation Intel Core i9/i7/i5/i3 ATX with DP/DVI/VGA, DDR4, USB 3.2, M.2

UNO-2372G V2

Small-Size Modular Embedded Box PC with Intel Celeron J6412

FPM-215

15" XGA Industrial Monitors with Resistive Touch Control, Direct HDMI, DP, and VGA Ports

TREK-773

7" All-in-One Ultra Rugged Mobile Data Terminal

Rackmount IPC



Server Board



Modular IPC



Fanless Panel PC



Industrial Tablet



ACP-4320MB

Quiet 4U Rackmount Chassis with Dual Hot-Swap SATA HDD Trays

ASMB-815

LGA 3647-P0 Intel Xeon Scalable ATX Server Board with 6 DDR4, 8 SATA3.0, 6 USB3.0, Dual 10GbE, IPMI

MIC-770 V2

Compact Fanless System with 10th Gen Intel Xeon/Core i CPU Socket (LGA 1200)

PPC-421W

21.5" Fanless Widescreen Panel PC with Intel 13th Gen Core i7/i5/i3 Processor

AIM-68S

10.1" Industrial Tablet with Intel Alder Lake-N Processor

Industrial Gateway**ECU-1051TL**

Cloud enabled Intelligent
Communication Gateway
for IIOT application

Ethernet I/O**ADAM-6017**

8-ch Isolated Analog Input
Modbus TCP Module
with 2-ch DO

Unmanaged Switch**EKI-2528**

5-port Unmanaged
Industrial Ethernet Switch

Serial I/O Module**ADAM-4055**

16-ch Isolated Digital I/O
Module with Modbus

Vibration Sensor**WISE-2410**

LoRaWAN Wireless
Condition Monitoring
Sensor

Intelligent RTU**ADAM-3600**

8AI / 8DI / 4DO / 4-Slot
Expansion Wireless
Intelligent RTU

Remote I/O**ADAM-6250**

15-ch Isolated Digital I/O
Modbus TCP Module

Managed Switch**EKI-7706**

4GE+2G SFP Port Gigabit
Managed Redundant
Industrial Switch

Serial Converter**ADAM-4570**

2-port RS-232/422/485
Serial Device Server

LoRaWAN Gateway**WISE-6610 V2**

Industrial LoRaWAN
gateway with AS923 MHz
and Edgelinek

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