WISE-Edge365

IoT Edge Device Management Platform

- What is WISE-Edge365
- An overview of WISE-Edge365 functions
- Advantech hardware with WISE-Edge365
- Vertical focus and applications
Pain Points in IoT Environments

Complex Integration with Mass Deployment
- Edge devices are usually deployed in the same network. However, the complexity of edge devices and protocols increases the difficulty of data integration.
- Large amounts of time and manpower are required for programming to ensure that devices communicate with each other.

Difficulty of Maintaining Uptime
- Computing systems in their fields of operation are usually located at unstaffed or remote sites. It is difficult and costly to maintain system uptime and prevent equipment breakdown.

Start Managing Your Devices and Data with WISE-Edge365

WISE-Edge365 offers you a complete device management service, together with edge software and a cloud service, to connect to Advantech IoT devices, and remotely manage those devices along with their data and applications.

WISE-Edge365 can operate in either a SaaS or on-premise environment, providing a user-friendly interface through the portal. Users can log in to access every function such as device configuration, real-time monitoring, and user management. In addition, it is simple and flexible to visualize data and export third-party systems.

Your Benefits at a Glance
- A single management platform reduces the hassle of system integration
- Remote access to systems which minimizes downtime
- Increased operation efficiency with IoT connectivity and OTA functions
- One-stop shopping for everything you need at the edge
- SaaS-based device management, pay-as-you-go
Advantech offers IPC, protocol gateways, intelligent I/O, wireless gateways, etc. It’s a one-stop shop for everything you need for AIoT projects.

Everything You Need for IoT Edge
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An Overview of WISE-Edge365 Functions

Analyze Your Data with Dashboards
WISE-Edge365 comes with cloud dashboards for you to build big data analytic applications in a no-code environment.

A Single Platform for Device Management
WISE-Edge365 provides a single platform for you to manage all your edge devices to reduce the complication of using multiple management platforms from different vendors.

Maintenance Resource Optimization
Users can set maintenance alarms with big data dashboards. Dispatch lists can also be sent out to maintenance engineers to efficiently utilize their work force.

How Does WISE-Edge365 Work for You

1. Connect all Things at the Edge
   • 200+ communication drivers and multiple protocols support

2. Link IoT Devices to Cloud
   • Authentication & instant on-boarding
   • Enhanced security with VPN & MQTTs

3. Manage Device and Data from the Cloud
   • Real-time monitoring & remote control
   • OTA update: firmware, software, application
   • Virtual physics model
   • Dashboard and alarm notification
   • Multi-tenant architecture
   • Public cloud and on-premise
   • Open API for easy integration

Start your new project with WISE-Edge365
Get started with the beta trial or visit our website to learn more about WISE-Edge365
WISE-Edge365 plays an essential role in device management of different Advantech hardware, such as remote I/O, wireless I/O, protocol gateways, IPC, and more.

<table>
<thead>
<tr>
<th>Functions</th>
<th>Remote I/O</th>
<th>Wireless I/O</th>
<th>Protocol Gateway (EdgeLink)</th>
<th>IPC &amp; Panel PC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Remote I/O Configuration</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Remote I/O, OS, Tag Monitor</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>Remote OS Control (Reboot, Shutdown)</td>
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<td>✓</td>
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<tr>
<td>Remote iBMC Control (Turn On, Turn Off, Reset, Shutdown)</td>
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<td></td>
<td>✓</td>
<td>Hardware must support iBMC</td>
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<tr>
<td>Firmware OTA</td>
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<tr>
<td>Configuration File OTA</td>
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<tr>
<td>Remote Application Management</td>
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<td>✓</td>
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<tr>
<td>EdgeLink Project File Dispatch</td>
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<td>✓</td>
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</tbody>
</table>

**Cloud Service**
- Pay-As-You-Go SaaS
  - Real-time monitoring & remote control
  - OTA: firmware, software, application
  - Authentication & Instant onboarding
  - Enhanced security with VPN & MQTTs
  - Virtual physics model

**Public/Private Cloud**
- Dashboard, alarm notification
- OTA: firmware, software, application
- Enhanced security with VPN & MQTTs
- Virtual physics model

**Third Party Platform**
- BI/Al Partners
- Data Visualization
- Vertical App

**Edge Service**
- Device Connectivity
- Intelligent Data Processing
- Cloud Connectivity
- Third-Party Devices (200+ Drivers for PLCs, Meters, Sensors)
- Advantech IPCs
- Advantech IoT Modules
Vertical Focus and Applications

Smart Factories

Remote Equipment Management & Maintenance
Equipment such as boilers and compressors play key roles in the operation of a factory. WISE-Edge365 helps customers connect the equipment and data via Advantech IoT devices, and transmits the data to the cloud. WISE-Edge365 also supports OTA updates which can help machine builders remotely catch issues and update software on devices that are difficult to access.

Building

Remote HVAC Monitoring & Maintenance
HVAC monitoring is important as it is a major contributor to the maintenance and energy consumption expenses of a building. WISE-Edge365 offers a reliable solution for remote operation and maintenance of IoT devices connected to HVAC to track energy consumption and the performance of heating, ventilation, and air conditioning units.

Energy & Environment

Distributed Remote Monitoring
WISE-Edge365 provides a cloud-enabled facility and environmental monitoring for water management systems. Advantech IoT devices bundled with edge software can track the real-time operating status of distributed pumps and remotely control the water supply.