Edge Intelligence Server (EIS)
Building Up Edge-to-Cloud Applications with Integrated Hardware plus Software
EIS-D110/EIS-D120/EIS-D150

Pre-configured Microsoft Azure

WISE-Agent

Node-RED

IoT Connectivity

Data Manageability

WISE-PaaS
IoT Software Platform

WebAccess/IMM
WebAccess/HMI
WebAccess/SCADA
WISE-PaaS/OTA
WISE-PaaS/Security
WISE-PaaS/RMM

Enabling an Intelligent Planet
Advantech Edge Intelligence Server accelerates IoT implementation by providing integrated solutions with edge computer, WISE-PaaS software packages, IoT development tools, pre-configured cloud services, plus the flexibility to add on more software modules from the WISE-PaaS marketplace that enable IoT connectivity, data manageability and analytics in the edge.

### Software Architecture

**WISE-PaaS IoT Software Platform Services**

**Cloud Service**
- Security
  - Intel® Security
  - SSL/TLS
- Data
  - SQL/NoSQL DB
  - ODBC Support
- Dashboard
  - Mobile Device Support
  - Data Insight
  - Power BI Embedded

**EIS**
- Edge Intelligence
  - Streaming Analytics
  - Data Ingestion
  - Device Management
  - Protocol Connectors

**IoT Sensing Device**
- WISE-Agent
  - Device Monitoring
  - IoT Protocols
  - Data plug-in

**Services**
- RESTful API
- Node-RED

**Marketplace**

**MQTT**
- Northbound Cloud Connectivity
- Southbound Sensing Device Connectivity
- Services on Docker Containers
- Data Manageability

**Dashboard and Development Tools**

**Remote Monitoring and Management**
- Centralized IoT device HW & SW status management
- Built-in 15+ real-time monitoring widgets
- up to 1000 device connections

**Interactive Multimedia Management**
- Visualization interface
- Drag and drop operation
- Multi-display support: Distinct/Clone/Extended mode

**Smart SCADA Management**
- Dashboard Editor & Viewer
- Widget Library & Widget Builder
- Cross Browser & Device Viewing

**IoT Development Tools**
- Node-RED Data Flow Logic Designer
- Dashboard Builder
- Protocol Plug-in SDK & Configuration Tools
Great Benefits for IoT System Designers

**Ready-to-run Package**
All Advantech WISE-PaaS software built-in, including WISE-PaaS/RMM, OTA and Security as general module for IoT applications and vertical IoT solution WebAccess/SCADA, IMM, HMI

**Simplify IoT Deployment**
Provides software development kits (SDKs) for data collection, pre-processing and management, with technical documents and sample code. Gives developers an easy start.

**Quick Cloud Connection**
Provides pre-configured Azure IoT service in WISE-PaaS IoT Connectivity.

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**WISE-PaaS**
Built-in

**WISE-PaaS/RMM**
Remote Monitoring and Management
Open & standard IoT device remote monitoring and management platform

**WISE-PaaS/OTA**
Remote Software Update
Remote software update, includes 3rd party software (Integration version in WISE-PaaS/RMM)

**WISE-PaaS/Security**
Centralize Security Management
Centralize devices, data protection and remote back-up and recovery solution (Integration version in WISE-PaaS/RMM)

**WebAccess/IMM**
Interactive Multimedia
Centralized content editor and dispatch management for interactive multimedia player

**WebAccess/SCADA**
Smart SCADA
Data collection and graphical interfaces for supervisory management (Limited version with 16 tags access ability)

**WebAccess/HMI**
Human Machine Interface
A stand-alone, machine-level HMI to a distributed visualization solution (Limited version with 16 tags access ability)

**WISE-Agent**
IoT Connectivity

**Edge IoT Application Development**
Open Plug-in SDK and sample code for sensor and data collection and conversion.

**Data Format Integration**
Supports ODBC plug-in for database and file type (CSV, MDB) data integration.

**Industrial Protocol Connectivity**
Provides standard protocols (Modbus/OPC/MQTT) for sensor and devices data collection.

**I/O and Sensor Compatibility**
Integration tested with Advantech M2.COM, ADAM and WISE-4000 series.
**Node-RED**

*Data Manageability*

**Pre-configured Azure Service**

*Option*

**Easy Application Development**
Overall 250+ RESTful APIs are provided for application developer to access related functionality and IoT data of WISE-PaaS software.

**Smart Data Processing**
Pre-integrated Data Flow Logic Designer Node-RED for data processing and flow control (Sample code included).

**Zero Downtime**
Data cache storage for secured data transfer, retain data when connection is lost; forward it after connection is reestablished.

**RESTful API**

**ZDT**

**RE-DEPLOYMENT**

**Product Offerings**

**EIS-D110**
- Intel® Celeron® J1900
- WES7E/ Win 10 Enterprise
- COM, GbE
- Wi-Fi, Bluetooth

**EIS-D120**
- Intel® Celeron® J1900
- WES7E/ Win 10 Enterprise
- COM, GbE, iDoor
- Wi-Fi, Bluetooth

**EIS-D150**
- 6th Gen Intel® Core™ U-series
- WES7E/ Win 10 Enterprise
- COM , GbE, iDoor
- Wi-Fi, Bluetooth

**Power BI Embedded**

**Virtual Machine**

**Data Reporting**
Pre-configuration with DB and data, 720 hours Power BI usage embedded

**System Deployment**
4 Core A3 VM for up to 100 devices connection

**Web Services Center**
Use your existing skills to code in your favorite language

**Big Data Storage**
1T storage with 99.99% reliability

**Device Management Package**

**Data Intelligence Package**

**Virtual Machine**

**WISE-PaaS/RMM**

**100 devices connection and management ability**

**40 WISE-Points/ Month**

**Virtual Machine**

**Power BI Embedded**

**Databases**

**60 WISE-Points/ Month**

**Web APPs**

**Web Services Center**

**Big Data Storage**

**Get your service on WISE-PaaS Marketplace**

Microsoft® Azure Services are available using WISE-Point digital currency, which applies in the WISE-PaaS Marketplace.

http://wise-paas.advantech.com/marketplace/
With Advantech Exclusive Software Service, we provide the WISE-PaaS Marketplace, an online software shopping website that provides IoT Cloud Services, Security Services, WISE-PaaS IoT Services and Solution Ready Package for Edge Intelligence Server (EIS). WISE-PaaS Marketplace integrates with IoT eco-partners on cloud and software solutions to accelerate building blocks for IoT developers. Software offerings include:

**Cloud Services**
Leverage Microsoft Azure and ARM mbed cloud Services to provide Cloud Services and pre-configured Packages

**Security Services**
Integrate Intel® Security and Acronis to secure devices and data by Central Management Platform

**WISE-PaaS IoT Services**
Provide all WISE-PaaS software series with full function version and access point/ manage devices expansion

**Solution Ready Package for EIS**
Based on EIS products, provide pre-configured Azure services packages for different verticals and scenarios

Customers can join the WISE-PaaS Alliance, an IoT partner program launched by Advantech that helps partners build IoT applications with various of software and cloud services; they can then access the WISE-PaaS Marketplace and choose software packages online with their WISE-Points. WISE Points are used as Advantech’s digital currency for reducing the difficulty of cross-software purchases, and membership is required in order to have Points. Advantech supports alliance members in achieving their business and application goals; we share our resources and knowledge to help alliance members leap the IoT gap.
Leverage Microsoft Azure and ARM mbed cloud Services to provide Cloud Services and pre-configured Packages

Integrate Intel® Security and Acronis to secure devices and data by Central Management Platform

Provide all WISE-PaaS software series with full function version and access point/ manage devices expansion

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Ordering Configuration Table

<table>
<thead>
<tr>
<th>Package Offerings</th>
<th>EIS-D110</th>
<th>EIS-D120</th>
<th>EIS-D150</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPU</td>
<td>Intel® Celeron® J1900</td>
<td>Intel® Celeron® J1900</td>
<td>Intel® 6th Gen Core™ i5 6300U</td>
</tr>
<tr>
<td>RAM/Storage</td>
<td>4GB /64GB SSD</td>
<td>4GB /64GB SSD</td>
<td>4GB /64GB SSD</td>
</tr>
<tr>
<td>OS</td>
<td>Windows Embedded Standard 7E</td>
<td>Windows 10 IoT Enterprise 2016</td>
<td></td>
</tr>
<tr>
<td>I/O Interface</td>
<td>HDMI x2, GbE x2, RS232/422/485x1</td>
<td>HDMIx1, VGAx1, GbE x2 RS-232 x2, RS-232/422/485 x2, iDoor.</td>
<td>HDMI x1, VGA x1, GbE x2, RS232/422/485x4, iDoor</td>
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<tr>
<td>Wireless Networking</td>
<td>IEEE 802.11 a/b/g/n Bluetooth 4.0 HS</td>
<td>N/A</td>
<td>IEEE 802.11 a/b/g/n/ac Bluetooth 4.1 HS</td>
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<tr>
<td>Dimensions(WxHxD)</td>
<td>133.8 x 43.1 x 94.2 mm</td>
<td>264.5 x 68.4 x 133.0 mm</td>
<td>260 x 44 x 140.2 mm</td>
</tr>
<tr>
<td>Software Package</td>
<td>WISE-PaaS/RMM</td>
<td>Remote Monitoring and Management</td>
<td>WebAccess/SCADA</td>
</tr>
<tr>
<td></td>
<td>WISE-PaaS/OTA</td>
<td>Remote Software Update</td>
<td>WebAccess/IMI</td>
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<td></td>
<td></td>
<td></td>
<td>Interactive Multimedia</td>
</tr>
<tr>
<td>Development Tools</td>
<td>• Node-RED Data Flow Logic Designer &amp; Dashboard Builder</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Protocol Plug-in SDK &amp; Configuration Tools</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Order Information</td>
<td>EISD110W1SS641-BTO (WES7E/64G SSD: 2016/12)</td>
<td>EISD120W1DS641-BTO (WES7E: 2017/01)</td>
<td>EISD150W1DS641-BTO (WES7E: 2017/02)</td>
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<tr>
<td></td>
<td>EISD110W1SS141-BTO (WES7E/128G SSD: 2016/12)</td>
<td>EISD120E1DS641-BTO (Win 10; 2017/02)</td>
<td>EISD150E1DS641-BTO (Win 10; 2017/02)</td>
</tr>
<tr>
<td></td>
<td>EISD110E1SS641-BTO (Win 10; 2017/01)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Optional Configuration

<table>
<thead>
<tr>
<th>Option 100: WISE-Points</th>
<th>Option 200: Pre-configured Azure Package</th>
</tr>
</thead>
<tbody>
<tr>
<td>[101] 100 Points: 98DPWSPAP1</td>
<td>[201] Azure Device Management Package: 9806WMDMP0 40 Points/ Month</td>
</tr>
<tr>
<td>[102] 2,000 Points: 98DPWSPA0A</td>
<td>[202] Azure Data Intelligence Package: 9806WMDIP0 60 Points/ Month</td>
</tr>
</tbody>
</table>

Order in 3 Easy Steps

1. Go AOnline
2. Add to Cart
3. Confirm Order

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