**Introduction**

EIS-D110, entry level Edge Intelligence Server (EIS) is software and hardware integrated solution for IoT and cloud applications. EIS-D110 offers a ready-to-run system (Intel® Celeron® J1900 platform with WES7E) and WISE-PaaS software package, included IoT foundational block WISE-PaaS/RMM, WISE-PaaS/OTA, WISE-PaaS/Security and vertical application WebAccess/SCADA, WebAccess/IMM, WebAccess/HMI. User can find more software package in Advantech WISE-PaaS Marketplace. For IoT developers, EIS-D110 provides WISE-Agent and protocol plug-in SDK for IoT data collection and conversion, and built-in Node-RED for smart data processing and logic flow design. It also provides pre-configured Azure packages on WISE-PaaS Marketplace for easy and quickly cloud connection. EIS-D110 offers a complete solution for IoT data collection and intelligence creation from end device, edge network, to the cloud, with it, you can build and land IoT Application with new innovation and easy integration solution.

**Solution Block Diagram**

**WISE-PaaS**

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

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

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

All product specifications are subject to change without notice. Last updated: 21-Mar-2017
IoT Development Tools

Node-RED Utility  Pre-integrated logic edit tool Node-RED
Data Collection  Receive Data to Agent and transfer to WISE-PaaS/RMM server
Data Conversion  Conversion data protocol to MQTT with JSON format
Plug-in SDK  Agent and protocol conversion plug-in SDK for developer
GUI Protocol Config Tool (for Modbus)  Provide Modbus GUI for quick configuration
Back-up and System Recovery  Acronis Hot back-up/ Recovery/ Hot-Key recovery
Security  McAfee white list protection
Remote Update (OTA)  Software (Advantech & 3rd party) update
Zero Downtime  Reserve edge data when lost connection and recover it when the connection is back
Light Analytic  Statistics and graphical representation of historical data
Dashboard Builder  Customizable dashboard to display sensor data with text, spark line, gauge, etc. types of widgets

**Support depends on device type, OS and account permission.

Edge System Specifications

Processor  Intel® Celeron® J1900 Quad Core 2.0GHz SoC
Memory  4GB bundled
Integrated OS  WES7E
Operating Temperature  -20 ~ 60° C with industrial grade RAM/SSD
I/O Interface  HDMIx2, GbEx2, RS232/422/485x1, USB 3.0x1, USB 2.0x2, Line-in, Line-out
Power Input  12VDC in
Wireless Networking  Atheros AR9462 WIFI module bundled (w/ RF certification)
Storage  64/128GB 2.5” SATA III SSD bundled
Dimensions  133.8 x 43.1 x 94.2 mm (5.27” x 1.7” x 3.71”)

Ordering Information

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<th>Part Number</th>
<th>CPU</th>
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<th>Storage</th>
<th>OS</th>
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<th>USB 2.0</th>
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<th>RS-232/422/485</th>
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<th>RF module</th>
<th>Power Input</th>
<th>mSATA</th>
<th>Operating Temperature*</th>
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<td>64G 2.5” SATAIII SSD</td>
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* If industrial grade memory and SSD selected.

Packing List

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<th>Description</th>
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<tr>
<td>1</td>
<td>EIS-D110 Edge Computer</td>
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<tr>
<td>2</td>
<td>WISE-PaaS software packages</td>
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<td>3</td>
<td>18V/36W AC to DC Adapter</td>
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<td>Accessory Package (2 x Wi-Fi Antenna)</td>
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Optional Items

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