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EIS-D150

High-Performance Edge Intelligence Server (EIS)



Features

- Integrated hardware and software aids edge-to-cloud application development
- Preconfigured system: High-performance computing powered by 6th Generation Intel[®] Core™ U-series i5, WES7E/Win 10 with 4 GB RAM, 64 GB SSD
- Pre-integrated WISE-PaaS software package: WISE-PaaS/RMM, WISEPaaS/ OTA, WISE-PaaS/Security, WebAccess/SCADA, WebAccess/IMM, and WebAccess/HMI
- Preconfigured Microsoft Azure service: Device management package/data intelligence package (optional)
- Comprehensive developer tools and documents: Node-RED dataflow logic designer, dashboard builder, protocol plug-in SDK, and configuration tools



Advantech's EIS-D150 high-performance EIS is a software/hardware integrated solution offering high computing power for IoT and cloud applications. The unit enables data preprocessing in addition to logic and flow control at the edge of networks. The EIS-D150 comes with a ready-to-run system (6th Generation Intel® Core™ U-series i5 platform with WES7E/ WIN10 IoT Enterprise) and WISE-PaaS software. It includes the IoT foundational block WISE-PaaS/RMM, WISEPaaS/OTA, and WISE-PaaS/Security, as well as the vertical applications WebAccess/SCADA, WebAccess/IMM, and WebAccess/HMI. Furthermore, it gives the flexibility to add other software from the WISE-PaaS marketplace. For IoT developers, the EIS-D150 provides WISE-Agent and a protocol plugin SDK for IoT data collection and conversion, as well as a built-in Node-RED for smart data processing and logic flow design. It comes with preconfigured Azure packages from the WISE-PaaS Marketplace for easy and fast cloud connectivity. The EIS-D150 offers a complete solution for IoT data collection and intelligence creation from end devices and edge networks to the cloud. Its high computing power can assist with efficiently managing various types of devices, equipment, and sensors. With this unit, you can accelerate IoT implementation and enable IoT connectivity, data manageability, and analytics in the edge of your network.

Solution Block Diagram

- WISE-PaaS

Built-in

WISE-PaaS/RMM

Remote Monitoring and Management

Open standard IoT device monitoring and management platform

WISE-PaaS/Security

Centralized Security Management

Centralized device management, data protection and remote back-up and recovery solution (Integrated into WISE-PaaS/RMM)

WebAccess/SCADA

Smart SCADA

Data collection and graphical interfaces for supervisory management (Limited version with 16 point access ability)

WISE-PaaS/OTA

Remote Software Update

Remote software update, includes 3rd party software (Integrated into WISE-PaaS/RMM)

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)

IOT Connectivity Edge IoT Application



Edge IoT Application Development

Open Plug-in SDK and sample code for sensor and data collection and conversion.



Data Format Integration

-WISE-Agent

Supports ODBC plug-in for database and data integration (file types: CSV, MDB).



Industrial Protocol Connectivity

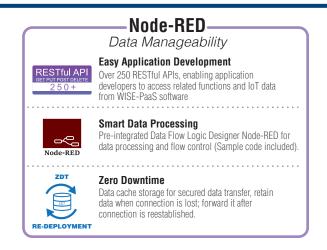
Provides standard protocols(Modbus/ OPC/ MQTT) for sensor and device data collection

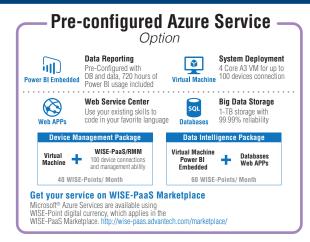


I/O and Sensor Compatiblity

Integration tested with Advantech M2.COM, ADAM and WISE-4000 series.







IoT Development Tools

Node-RED Utility	Pre-integrated logic editing tool Node-RED
Data Collection	Receive data from agents and transfer the data to a WISE-PaaS/RMM server
Data Conversion	Convert data protocol to MQTT with JSON format
Plug-in SDK	Agent and protocol conversion plug-in SDK for developers
GUI Protocol Config Tool (for Modbus)	Modbus GUI provided for quick configuration
Backup and System Recovery	Acronis hot backup/recovery/ hot-key recovery
Security	McAfee whitelist protection
Remote Update (OTA)	Software (Advantech and 3rd party) updates
Zero Downtime	Preserve edge data when connections are lost and recover the data once the connections have been restored
Light Analytics	Statistical and graphical representation of historical data
Dashboard Builder	Customizable dashboard with widgets for displaying sensor data in the format of text, sparklines, gauges, and so on

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

Edge System Specifications

Processor	Intel® Core™ i5 6300U				
Memory	4GB DDR3L 1600MHz memory built in (Max Capacity: 16GB / 1600MHz)				
Integrated O/S	WES7E/Win 10				
Operating Temperature	With extended temperature peripherals: $-20 \sim 60$ °C ($-4 \sim 140$ °F) with 0.7m/s air flow 2.5-inch HDD: $0 \sim 45$ °C ($32 \sim 113$ °F) with 0.7m/s air flow				
Display	1 x VGA, 1 x HDMI, supports dual display (VGA and HDMI)				
I/O Interface	2 x GbE LAN, 2 x USB 2.0, 4 x USB 3.0, 4 x RS-232/422/485, 1 x digital I/O, line out/mic in				
Power Input	12 V _{DC} (option: 9–36 V)				
Storage	64-GB 2.5" SATA III SSD built in				
Dimensions (W x H x D)	260 x 54 x 140.2 mm (10.24" x 2.13" x 5.52")				

Ordering Information

Part Number	CPU	Memory	Storage	os	VGA	HDMI	GbE	USB 2.0	USB 3.0	RS-232/ 422/485	DIO	Audio	Full-size MiniPCle	Power Input	mSATA	Operating Temperature*
EIS-D150-W1DS641	Intel® Core™ i5 6300U SoC	4 GB	64G 2.5" SATAIII SSD	WES7E	1	1	2	2	4	4	1, 8bit	Line out, mic in	2, 1 with SIM holder	12 V _{DC}	1	-20 ~ 60° C
EIS-D150-E1DS641	Intel® Core™ i5 6300U SoC	4 GB	64G 2.5" SATAIII SSD	Win 10	1	1	2	2	4	4	1, 8bit	Line out, mic in	2, 1 with SIM holder	12 VDC	1	-20 ~ 60° C

^{*} If industrial-grade memory and SSD are selected

Packing List

Item	Description
1	EIS-D150 edge computer
2	WISE-PaaS software packages

Optional Items

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Part Number	Description
96PSA-A60W12W6	AC-to-DC adapter, DC 12 V/5 A 60 W
1700001524	Power cable 3-pin 180 cm, USA type
170203183C	Power cable 3-pin 180 cm, Europe type
170203180A	Power cable 3-pin 180 cm, UK type
1700008921	Power cable 3-pin PSE Mark 183 cm
AMK-V019E	VESA mount kits
AMK-R005E	DIN rail mount kits