

WISE-4250AS Series

Industrial Wi-Fi 2.4G/5G Wireless I/O Module Driving with Azure Sphere

Startup Manual

Packing List

Before you begin installing your module, make sure that the following materials have been included:

- 1 x WISE-4250AS Series module
- 1 x Mounting bracket
- 1 x Quick start manual

* WISE-S200 I/O module should be ordered respectively.

If any of the above items are missing or damaged, please contact your distributor or sales representative immediately.

Introduction & Overview

The WISE-4250AS series is an Ethernet-based wireless IoT device, integrated with IoT data acquisition, processing, and publishing functions. As well as various I/O and sensor types, the WISE-4250AS series is programmable to provide data pre-scaling, data logic, and data logger functions. The device is powered by Microsoft with Azure Sphere inside.

Advantech offers high adaptability interchangeable I/O module and sensors as well as an I/O configuration and SDK for each model. Users can follow the examples and compile their own codes for the device to ensure all compatibility and functionality of the hardware.

End users can isolate their devices with Azure Sphere tenant through the integrated Advantech WISE-4250AS and Microsoft software stack. A device can be claimed only once. Once claimed, the device is permanently associated with the Azure Sphere tenant.

Please take note that claiming is a one-time operation that you cannot undo even if the device is sold or transferred to another person or organization.

One of the features of WISE-4250AS is its advanced end-to-end IoT security with Microsoft Visual Studio IDE for accelerated application software development and debugging.

For driver library user guide, please download via Advantech website.

For more information on this and other Advantech products, please visit our website at:

<http://www.advantech.com/eAutomation>

For technical support and service:

<http://www.advantech.com/support/>

This startup manual is for WISE-4250AS series.

Part No. 2041425000

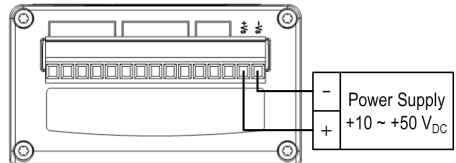
Edition 1

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Input Power Requirement

The WISE-4250AS is designed for a standard industrial unregulated $24 V_{DC}$ power supply. For some applications, it can also accept $+10$ to $+50 V_{DC}$ power input with 200 mV peak-to-peak power ripple. The immediate ripple voltage should be between $+10$ and $+50 V_{DC}$. Batteries may also be used as an alternative power source.

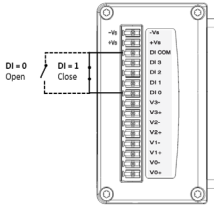
Power Supply Wiring



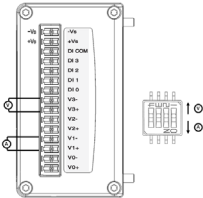
Application Wiring

WISE-S214 (4AI/4DI)

Digital Input - Dry Contact



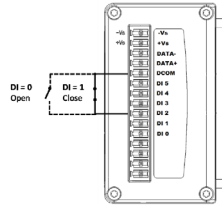
Analog Input



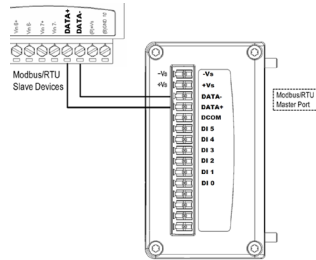
Application Wiring (Cont.)

WISE-S251 (6DI/1RS-485)

Digital Input - Dry Contact

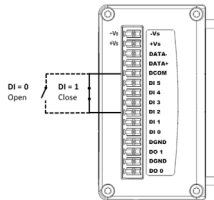


RS-485 Port

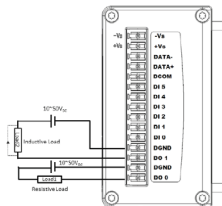


WISE-S250 (6DI/2DO/1RS-485)

Digital Input-Dry Contact



Digital Output



RS-485 Port

