IoT Wireless I/O Solutions

Providing IoT Wireless Smart Devices with Direct Cloud Accessibility



ADVANTECH

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4-ch Universal Input and 2-ch Digital Output IoT Wireless I/O Module



Features

- 4-ch universal input and 2-ch digital output
- 2.4GHz Wi-Fi reducing the wiring cost during big data acquisition
- Easily extend the existing network by adding APs, and share existing Ethernet software
- Configured by mobile devices directly without installing any software or Apps
- Zero data loss using the log function with RTC time stamp
- Data can be automatically pushed to Dropbox or computer
- Supports RESTful web API in JSON format for IoT integration

Introduction

The WISE-4000 series is an Ethernet-based wireless IoT device, integrated with IoT data acquisition, processing, and publishing functions. As well as various I/O types, the WISE-4000 series provides data pre-scaling, data logic, and data logger functions. These data can be accessed via mobile devices and be securley published to the cloud anytime from anywhere.

Features

IEEE 802.11 b/g/n 2.4GHz Wi-Fi with AP Mode

The Wi-Fi interface is easily integrated with wired or wireless Ethernet devices, users only need to add a wireless router or AP to extend existing Ethernet network to wireless. The limited AP mode enables the WISE-4000 to be accessed via other Wi-Fi devices directly as an AP.



RESTful Web Service with Security Socket

As well as supporting Modbus/TCP, the WISE-4000 series also supports IoT communication protocol, RESTful web service. Data can be polled or even be pushed automatically from the WISE-4000 when the I/O status is changed. The I/O status can be retrieved over the web using JSON. The WISE-4000 also supports HTTPS which has security that can be used in a Wide Area Network (WAN).



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The WISE-4000 can log up to 10,000 samples of data with a time stamp. The I/O data can be logged periodically, and also when the I/O status changes. Once the memory is full, users can choose to overwrite the old data to ring log or just stop the log function.



HTML5 Web Configuration Interface

All the configuration interfaces are applied in web service, and the web pages are based on HTML5, so users can configure the WISE-4000 without the limitation of OS/devices. You can use your mobile phone or tablet to directly configure the WISE-4000.



Cloud Storage





Universal Input

Channels 4Resolution 16-bit

Sampling Rate
Analog Input
Digital Input
2Hz (Per Channel)

Accuracy ±0.1% of FSR (Voltage)
±0.2% of FSR (Current)

Input Type and Range

Analog Input ± 150 mV, ± 50 0mV, ± 1 V, ± 5 V, ± 1 0V,

0~150mV, 0~500mV, 0~1V, 0~5V, 0~10V,

0~20mA, 4~20mA, ±20mA

 $\begin{array}{ll} \mbox{Digital Input (Dry Contact)} & 0: \mbox{ Open, 1: Close} \\ \hline \bullet & \mbox{Input Impedance} & > 10\mbox{M} \ \Omega \ (\mbox{Voltage}) \\ \end{array}$

120 Ω (External resistor for current)

Over Voltage Protection ±35 V_{DC}
Burn-out Detection Yes (4~20mA only)

Supports Data Scaling and Averaging

Digital Output

• Channels 2

(Open collector to 30 V, 400 mA max.

for resistance load)

■ Isolation 3,000 V_{rms}

- Supports 5 kHz Pules Output

Supports High-to-Low and Low-to-High Delay Output

General

WLAN IEEE 802.11b/g/n 2.4GHz
Outdoor Range 110 m with line of sight

• Connectors Plug-in screw terminal block (I/O and power)

• Watchdog Timer System (1.6 second) and Communication (programmable)

CE, FCC, R&TTE, NCC, SRRC, RoHS, KC

Certification
Dimensions (W x H x D)
CE, FCC, R&TTE, 1
80 x 148 x 25 mm

Enclosure PC

Mounting DIN 35 rail, wall, and stack

Power Input
Power Consumption
10 ~ 30 V_{DC}
2.5 W @ 24 V_{DC}

Power Reversal Protection

Supports User Defined Modbus Address

Supports Data Log Function
Supported Protocols
Up to 10000 samples with RTC time stamp
Modbus/TCP, TCP/IP, UDP, DHCP, and HTTP

- Supports RESTful Web API in JSON format

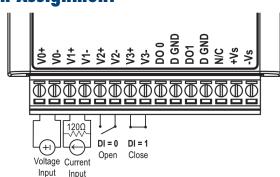
Supports Web Server in HTML5 with JavaScript & CSS3

Supports System Configuration Backup and User Access Control

Environment

Operating Temperature
Storage Temperature
Operating Humidity
Storage Humidity
Storage Humidity
Operating Humidity
Operating Humidity
Operating Humidity
Operating Humidity
Operating Humidity
Operating Humidity

Pin Assignment



Ordering Information

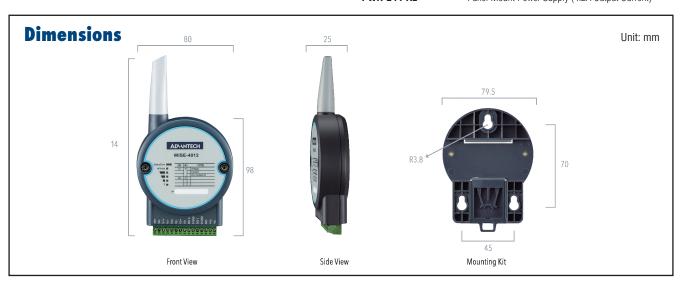
• WISE-4012-AE 4-ch Universal Input and 2-ch Digital Output IoT Wireless I/O Module

Selection Table

Model Name	Universal Input	Digital Input	Digital Output	Relay Output	RS-485
WISE-4012	4		2		
WISE-4050		4	4		
WISE-4051		8			1
WISE-4060		4		4	

Accessories

PWR-242-AE
PWR-243-AE
PWR-244-AE
DIN-rail Power Supply (2.1A Output Current)
Panel Mount Power Supply (3A Output Current)
Panel Mount Power Supply (4.2A Output Current)



4-ch Digital Input and 4-ch Digital Output IoT Wireless I/O Module



Introduction

The WISE-4000 series is an Ethernet-based wireless IoT device, integrated with IoT data acquisition, processing, and publishing functions. As well as various I/O types, the WISE-4000 series provides data pre-scaling, data logic, and data logger functions. Data can be accessed via mobile devices and be securely published to the cloud anytime from anywhere.

Features

IEEE 802.11 b/g/n 2.4GHz Wi-Fi with AP Mode

The Wi-Fi interface is easily integrated with wired or wireless Ethernet devices, users only need to add a wireless router or AP to extend existing Ethernet network to wireless. The limited AP mode enables the WISE-4000 to be accessed via other Wi-Fi devices directly as an AP.



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Features

- 4-ch digital input and 4-ch digital output
- 2.4GHz Wi-Fi reducing the wiring cost during big data acquisition
- Easily extend the existing network by adding APs, and share existing Ethernet software
- Configured by mobile devices directly without installing any software or Apps
- Zero data loss using the log function with RTC time stamp
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- Supports RESTful web API in JSON format for IoT integration

RESTful Web Service with Security Socket

As well as supporting Modbus/TCP, the WISE-4000 series also supports IoT communication protocol, RESTful web service. Data can be polled or even be pushed automatically from the WISE-4000 when the I/O status is changed. The I/O status can be retrieved over the web using JSON. The WISE-4000 also supports HTTPS which has security that can be used in a Wide Area Network (WAN).



Data Storage

The WISE-4000 can log up to 10,000 samples of data with a time stamp. The I/O data can be logged periodically, and also when the I/O status changes. Once the memory is full, users can choose to overwrite the old data to ring log or just stop the log function.



Cloud Storage





Digital Input

• Channels 4

Logic Level
Dry Contact 0: Open

1: Close to DI COM Wet Contact 0: 0 ~ 3 V_{DC}

GL 0. 0 ~ 5 VDC

1: 10 ~ 30 V_{DC} (3 mA min.)

■ Isolation 3,000 V_{rms}

Supports 3 kHz Counter Input (32-bit + 1-bit overflow)

Keep/Discard Counter Value when Power-off

Supports 3 kHz Frequency Input

Supports Inverted DI Status

Digital Output

Channels

(Open collector to 30 V, 400 mA max.

for resistance load)

■ Isolation 3,000 V_{ms}

Supports 5 kHz Pules Output

Supports High-to-Low and Low-to-High Delay Output

General

Certification

WLAN
Outdoor Range
IEEE 802.11b/g/n 2.4GHz
110 m with line of sight

Connectors
Plug-in screw terminal block (I/O and power)

• Watchdog Timer System (1.6 second) and

Communication (programmable)

CE, FCC, R&TTE, NCC, SRRC, RoHS, KC,

ANATEL

Dimensions (W x H x D) 80 x 148 x 25 mm

EnclosurePC

Mounting DIN 35 rail, wall, and stack

Power Input
Power Consumption
10 ~ 30 V_{DC}
2.2 W @ 24 V_{DC}

Power Reversal Protection

Supports User Defined Modbus Address

Supports Data Log Function
Supported Protocols
Up to 10000 samples with RTC time stamp
Modbus/TCP, TCP/IP, UDP, DHCP, and HTTP

Supports RESTful Web API in JSON format

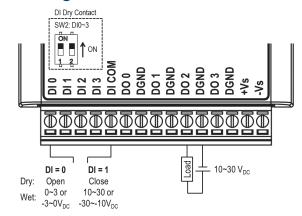
Supports Web Server in HTML5 with JavaScript & CSS3

Supports System Configuration Backup and User Access Control

Environment

Operating Temperature
Storage Temperature
Operating Humidity
Storage Humidity
Storage Humidity
Operating Humidity
Operating Humidity
Operating Humidity
Operating Humidity
Operating Humidity
Operating Humidity

Pin Assignment



Ordering Information

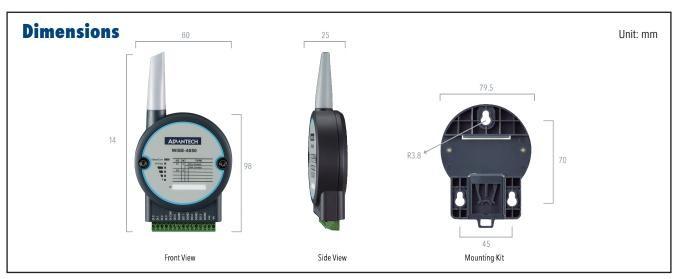
WISE-4050-AE 4-ch Digital Input and 4-ch Digital Output IoT Wireless I/O Module

Selection Table

Model Name	Universal Input	Digital Input	Digital Output	Relay Output	RS-485
WISE-4012	4		2		
WISE-4050		4	4		
WISE-4051		8			1
WISE-4060		4		4	

Accessories

PWR-242-AE
PWR-243-AE
PWR-244-AE
DIN-rail Power Supply (2.1A Output Current)
Panel Mount Power Supply (4.2A Output Current)
Panel Mount Power Supply (4.2A Output Current)



8-ch Digital Input IoT Wireless I/O Module with RS-485 Port



C E FC R&TTE (SRRC

Introduction

The WISE-4051 is an Ethernet-based wireless IoT device, integrated with IoT data acquisition, processing, and publishing functions. As well as various I/O types, the WISE-4051 provides data pre-scaling, data logic, and data logger functions. Data can be accessed via mobile devices and be securely published to the cloud anytime from anywhere.

Features

IEEE 802.11 b/g/n 2.4GHz Wi-Fi with AP Mode

The Wi-Fi interface is easily integrated with wired or wireless Ethernet devices, users only need to add a wireless router or AP to extend existing Ethernet network to wireless. The limited AP mode enables the WISE-4000 to be accessed via other Wi-Fi devices directly as an AP.



Modbus/RTU to Web Service or Modbus/TCP

The RS-485 port of the WISE-4051 supports Modbus, which can be used to poll the data from Modbus/RTU devices, like ADAM-4000, or ADAM-5000/485. Then you can access the data by Modbus or REST from the WISE-4051. The data can also be logged.



Features

- 8-ch digital input with 1-port RS-485 for Modbus devices
- 2.4GHz Wi-Fi reducing the wiring cost during big data acquisition
- Easily extend the existing network by adding APs, and share existing Ethernet software
- Configured by mobile devices directly without installing any software or Apps
- Zero data loss using the log function with RTC time stamp
- Data can be automatically pushed to Dropbox or computer
- Supports RESTful web API in JSON format for IoT integration

RESTful Web Service with Security Socket

As well as supporting Modbus/TCP, the WISE-4051 series also supports IoT communication protocol, RESTful web service. Data can be polled or even be pushed automatically from the WISE-4051 when the I/O status is changed. The I/O status can be retrieved over the web using JSON. The WISE-4051 also supports HTTPS which has security that can be used in a Wide Area Network (WAN).



Data Storage

The WISE-4000 can log up to 10,000 samples of data with a time stamp. The I/O data can be logged periodically, and also when the I/O status changes. Once the memory is full, users can choose to overwrite the old data to ring log or just stop the log function.



Cloud Storage





Digital Input

Channels

 Logic Level Dry Contact 0: Open

1: Close to DCOM

Wet Contact $0: 0 \sim 3 \text{ V}_{DC}$ $1: 10 \sim 30 \text{ V}_{DC}$ (3 mA min.)

Isolation

Supports 3 kHz Counter Input (32-bit + 1-bit overflow)

Keep/Discard Counter Value when Power-off

Supports 3 kHz Frequency Input

Supports Inverted DI Status

Serial Port

Port Number RS-485 Type Serial Signal DATA+, DATA-Data Bits 7,8 Stop Bits 1, 2

Parity None, Odd, Even

Baud Rate 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200 (bps)

Protection 15 kV ESD

Protocol Modbus/RTU (Total 32 address by max. 8 instructions)

General

WLAN IEEE 802.11b/g/n 2.4GHz Outdoor Range 110 m with line of sight

Connectors Plug-in screw terminal block (I/O and power)

 Watchdog Timer System (1.6 second) and Communication (programmable) Certification CE, FCC, R&TTE, NCC, SRRC, RoHS

Dimensions (W x H x D) 80 x 148 x 25 mm

Enclosure PC.

Mounting DIN 35 rail, wall, and stack

Power Input $10 \sim 30 \; V_{\text{DC}}$ Power Consumption 2.2 W @ 24 V_{DC}

Power Reversal Protection

Supports User Defined Modbus Address

Supports Data Log Function Up to 10000 samples with RTC time stamp Modbus/TCP, TCP/IP, UDP, DHCP, and HTTP **Supported Protocols**

Supports RESTful Web API in JSON format

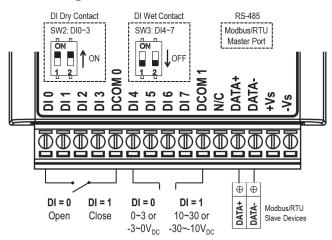
Supports Web Server in HTML5 with JavaScript & CSS3

Supports System Configuration Backup and User Access Control

Environment

Operating Temperature -25 ~ 70°C (-13~158°F) **Storage Temperature** -40 ~ 85°C (-40~185°F) **Operating Humidity** 20 ~ 95% RH (non-condensing) Storage Humidity 0 ~ 95% RH (non-condensing)

Pin Assignment



Ordering Information

WISE-4051-AE 8-ch Digital Input IoT Wireless I/O Module with RS-485 Port

Selection Table

Model Name	Universal Input	Digital Input	Digital Output	Relay Output	RS-485
WISE-4012	4		2		
WISE-4050		4	4		
WISE-4051		8			1
WISE-4060		4		4	

Accessories

 PWR-242-AE DIN-rail Power Supply (2.1A Output Current) Panel Mount Power Supply (3A Output Current) PWR-243-AE PWR-244-AE Panel Mount Power Supply (4.2A Output Current)



4-ch Digital Input and 4-ch Relay Output IoT Wireless I/O Module



Introduction

The WISE-4060 is an Ethernet-based wireless IoT device, integrated with IoT data acquisition, processing, and publishing functions. As well as various I/O types, the WISE-4060 provides data pre-scaling, data logic, and data logger functions. Data can be accessed via mobile devices and be securely published to the cloud anytime from anywhere.

Features

IEEE 802.11 b/g/n 2.4GHz Wi-Fi with AP Mode

The Wi-Fi interface is easily integrated with wired or wireless Ethernet devices, users only need to add a wireless router or AP to extend existing Ethernet network to wireless. The limited AP mode enables the WISE-4000 to be accessed via other Wi-Fi devices directly as an AP.



HTML5 Web Configuration Interface

All the configuration interfaces are applied in web service, and the web pages are based on HTML5, so users can configure the WISE-4000 without the limitation of OS/devices. You can use your mobile phone or tablet to directly configure the WISE-4000.



Features

- 4-ch digital input and 4-ch relay output
- 2.4GHz Wi-Fi reducing the wiring cost during big data acquisition
- Easily extend the existing network by adding APs, and share existing Ethernet software
- Configured by mobile devices directly without installing any software or Anns
- Zero data loss using the log function with RTC time stamp
- Data can be automatically pushed to Dropbox or computer
- Supports RESTful web API in JSON format for IoT integration

RESTful Web Service with Security Socket

As well as supporting Modbus/TCP, the WISE-4060 series also supports IoT communication protocol, RESTful web service. Data can be polled or even be pushed automatically from the WISE-4060 when the I/O status is changed. The I/O status can be retrieved over the web using JSON. The WISE-4060 also supports HTTPS which has security that can be used in a Wide Area Network (WAN).



Data Storage

The WISE-4000 can log up to 10,000 samples of data with a time stamp. The I/O data can be logged periodically, and also when the I/O status changes. Once the memory is full, users can choose to overwrite the old data to ring log or just stop the log function.



Cloud Storage





Digital Input

Channels

 Logic Level Dry Contact 0: Open

> 1: Close to DI COM Wet Contact 0: 0 ~ 3 V_{DC}

1: 10 ~ 30 V_{DC} (3 mA min.)

Isolation 3,000 V_{rms}

Supports 3 kHz Counter Input (32-bit + 1-bit overflow)

Keep/Discard Counter Value when Power-off

Supports 3 kHz Frequency Input

Supports Inverted DI Status

Relay Output

Channels 4 (Form A) Contact Rating 250 V_{AC} @ 5 A 30 V_{DC} @ 3 A (Resistive Load) Isolation (b/w coil & contacts) 3,000 V_{AC} Relay On Time 10 ms **Relay Off Time** 5 ms

Insulation Resistance $1 \text{ G}\Omega$ min. @ 500 V_{DC} **Maximum Switching** 60 operations/minute

Supports Pulse Output

Supports High-to-Low and Low-to-High Delay Output

General

WLAN IEEE 802.11b/g/n 2.4GHz **Outdoor Range** 110 m with line of sight

Plug-in screw terminal block (I/O and power) Connectors

Watchdog Timer System (1.6 second) and

Communication (programmable)

Certification CE, FCC, R&TTE, NCC, SRRC, RoHS, ANATEL

Dimensions (W x H x D) 80 x 148 x 25 mm

Enclosure PC

DIN 35 rail, wall, and stack Mounting

Power Input 10 ~ 30 Vnc Power Consumption 2.5 W @ 24 V_{DC}

Power Reversal Protection

Supports User Defined Modbus Address

Supports Data Log Function Up to 10000 samples with RTC time stamp **Supported Protocols** Modbus/TCP, TCP/IP, UDP, DHCP, and HTTP

Supports RESTful Web API in JSON format

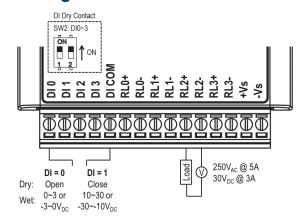
Supports Web Server in HTML5 with JavaScript & CSS3

Supports System Configuration Backup and User Access Control

Environment

Operating Temperature -25 ~ 70°C (-13~158°F) Storage Temperature -40 ~ 85°C (-40~185°F) **Operating Humidity** 20 ~ 95% RH (non-condensing) Storage Humidity 0 ~ 95% RH (non-condensing)

Pin Assignment



Ordering Information

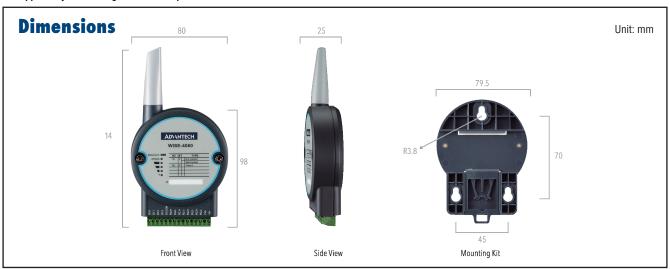
WISE-4060-AE 4-ch Digital Input and 4-ch Relay Output IoT Wireless I/O Module

Selection Table

Model Name	Universal Input	Digital Input	Digital Output	Relay Output	RS-485
WISE-4012	4		2		
WISE-4050		4	4		
WISE-4051		8			1
WISE-4060		4		4	

Accessories

PWR-242-AE DIN-rail Power Supply (2.1A Output Current) PWR-243-AE Panel Mount Power Supply (3A Output Current) PWR-244-AE Panel Mount Power Supply (4.2A Output Current)



WISE-40 12E 6-ch Input/Output IoT Wireless I/O Module for IoT Developers

Module for IoT Developers



■ ANATEL C € F© R&TTE ((() SRRC

Features

- 2.4 GHz IEEE 802.11b/g/n WLAN
- 2-ch 0 ~ 10V Input, 2-ch DI, and 2-ch Relay Output
- Includes WebAccess with demo project for developer
- Includes extension board for simulating sensor status
- Includes micro USB cable for power input
- Supports Modbus/TCP with RESTful web service
- Supports wireless client and server mode that can be accessed directly without AP or router
- Supports mobile device web configuration with HTML5 without the platform
- Supports file-based cloud storage and local logging with time stamp

Introduction

The Advantech WISE IoT Developer Kit is a complete hardware & software solution to help users develop IoT applications and simulate their projects in the simplest way. The WISE loT Developer Kit provides everything you need to get going: a WISE-4012E 6-ch universal input or output wireless Ethernet I/O module, and developer kit including: WebAccess 8.0 with open interfaces for intelligent application developer, extension board for simulating sensor status, a micro USB cable for power input, and a screwdriver for wiring. The WISE-4012E has an integrated Wi-Fi interface with AP mode and web configuration which can be accessed by mobile device directly. Data can be logged in the I/O module and then automatically pushed to the file-based cloud.

Product Concept: Data A-P-P



Data **A**cquisition



Data **P**rocessing



Data **P**ublishing

IoT Developer Kit







Your Smart Phone with WISE

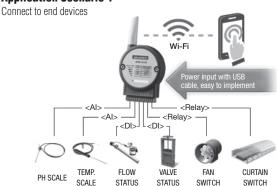
Direct Cloud Accessibility, Easy Application, Instant Sensing



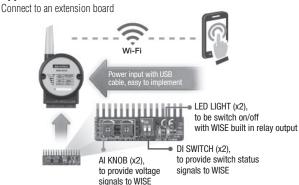
- WISE-4012E (x1)
- Extension Board (x1)
- USB Cable (x1)
- Screwdriver (x1)
- WebAccess (x1)



Application Scenario 1



Application Scenario 2



Voltage Input

2 Channel Resolution 12-bit Sampling Rate 10 Hz (Total) Accuracy $\pm 0.1~V_{DC}$ Input Type and Range $0 \sim 10 \text{ V}$ Input Impedance $100 \,\mathrm{k}\Omega$

Digital Input

Channels 2

 Logic level Dry Contact 0: Open 1: Close to GND

Supports 3 kHz Counter Input (32-bit + 1-bit overflow)

• Keep/Discard Counter Value when Power-off

- Supports 3 kHz Frequency Input

- Supports Inverted DI Status

Relay Output

Channels 2 (Form A) **Contact Rating** 120 VAC @ 0.5 A 30 V_{DC} @ 1A (Resistive Load) • Isolation (b/w coil & contacts) 1,500 V_{rms} Relay On Time 10 ms Relay Off Time 7 ms

 Insulation Resistance 1 GΩ min. @ 500 Vnc Maximum Switching 60 operations/minute

Supports Pulse Output

Supports High-to-Low and Low-to-High Delay Output

Environment

- Operating Temperature -25 ~ 70°C (-13 ~ 158°F) Storage Temperature -40 ~ 85°C (-40 ~ 185°F) Operating Humidity 20 ~ 95% RH (non-condensing) Storage Humidity 0 ~ 95% RH (non-condensing)

General

- WLAN IEEE 802.11b/g/n 2.4GHz Connectors Plug-in screw terminal block (I/O) Watchdog Timer System (1.6 second) and Communication (programmable)

 Certification CE, FCC, R&TTE, NCC, SRRC, RoHS, ANATEL

Dimensions (W x H x D) 80 x 139 x 25 mm

Enclosure PC

 Power Input Micro-B USB 5 V_{DC} Power Consumption 1.5 W @ 5 V_{DC} Supports User Defined Modbus Address

• Supports Data Log Function Up to 10,000 samples with time stamp Supported Protocols Modbus/TCP, TCP/IP, UDP, DHCP, and HTTP

Supports RESTful Web API in JSON format

Supports Web Server in HTML5 with JavaScript & CSS3

Supports System Configuration Backup and User Access Control

Ordering Information

 WISE-4012E-AE-WA WISE-4012E IoT Developer Kit with WebAccess

Advantech WebAccess 8.0

WebAccess Cloud Architecture

WebAccess is a 100% web based HMI and SCADA software with private cloud software architecture. WebAccess can provide large equipment vendors, SIs, and Enterprises access to and manipulation of centralized data to configure, change/update, or monitor their equipment, projects, and systems all over the world using a standard web browser. Also, all the engineering works, such as: database configuration, graphics drawing and system management and the troubleshooting can be operated remotely. This can significantly increase the efficiency of maintenance operations and reduce maintenance costs.

Business Intelligence Dashboard

WebAccess 8.0 provides an HTML5 based Dashboard as the next generation of WebAccess HMI. System integrators can use Dashboard Editor to create the customized information page by using analysis charts and diagrams which are called widgets. Ample widgets have been included in the built-in widget library, such as trends, bars, alarm summary, maps...etc. After the dashboard screens have been created, end user can view the data by Dashboard Viewer in different platforms, like Explorer, Safari, Chrome, and Firefox for a seamless viewing experience across PCs, Macs, tablets and smartphones.

Open Interfaces

WebAccess has three interfaces for different uses. First, WebAccess provides a Web Service interface for partners to integrate WebAccess data into APPs or application system. Second, a pluggable widget interface has been opened for programmer to develop their widget and run on WebAccess Dashboard, Last, WebAccess API, a DLL interface for programmer to access WebAccess platform and develop Windows applications. With these interfaces, WebAccess can act as an IoT platform for partners to develop IoT applications in various vertical markets.

Google Maps and GPS Tracking Integration

WebAccess integrates real-time data on each geographical site with Google Maps and GPS location tracking. For remote monitoring, users can intuitively view the current energy consumption on each building, production rate on each field or traffic flow on the highway together with alarm status. By right-clicking on Google Maps or entering the coordinate of the target, users can create a marker for the target and associate the real-time data of three sites with a display label. Furthermore, this function also integrates with GPS modules to track the location of the marker in Google Maps and allows it to be used in vehicle systems.

Ample Driver Support

WebAccess supports hundreds of devices. In addition to Advantech I/Os and controllers, WebAccess also supports all major PLCs, controllers and I/Os, like Allen Bradley, Siemens, LonWorks, Mitsubushi, Beckhoff, Yokogawa etc. WebAccess can easily integrate all devices in one SCADA. All of these device drivers are integrated into WebAccess and free of charge. For a complete list of WebAccess drivers, refer to webaccess.advantech.com.

Distributed SCADA Architecture with Central Database Server

SCADA nodes run independent of any other node. Each SCADA node communicates to automation equipment using communication drivers supplied with Advantech WebAccess. The Project Node is a centralized database server of configuration data. A copy of the database and graphics of all SCADA nodes is kept on the Project Node. The historical data is also stored in the database in project node.

Open Data Connectivity

Advantech WebAccess exchanges online data with 3rd party software in real-time by supporting OPC UA/DA, DDE, Modbus and BACnet Server/Client. It supports SQL, Oracle, MySQL, and MS Access for offline data sharing.

Software Requirements

 Operating System Windows XP (SCADA Node Only), Windows 7 SP1,

Windows 8 Professional, Windows Server 2008 R2 or

 Hardware Intel Atom or Celeron. Dual Core processors or higher

recommended

2GB RAM minimum, more recommended

30GB or more free disk space