WISE-4000 Series

Wireless IoT Ethernet I/O Module



Preliminary

Main Features

- Supports both wireless server and client that can be accessed directly without an AP
- Supports new web service that pushes data instantly to the cloud
- Supports file-based cloud storage for data logging and buffering
- Supports portable device web configuration, and also group deployment
- Tag-based web service design enable device plug-n-play

Introduction

The WISE-4000 series provide a cost-effective wireless solution for cloud applications. By supporting direct cloud access, new web services and datalogs, the WISE-4000 series can seamlessly connect to the cloud for a wireless solution.

Specifications

Universal Input

Channel WISE-4012: 4 Resolution 16-bit 10/100 Hz (Total) **Sampling Rate**

±0.1% of FSR (Voltage, Current) Accuracy

Input Type and Range

Analog Input Digital Input 0~10 V, 0~20 mA, 4~20mA

Dry Contact 0: Open, 1: Close to GND

- Over Voltage Protection $\pm 35~V_{DC}$

 Burn-out Detection Yes (4~20 mA only)

Supports Data Scaling and Averaging

Digital Input

Channels WISE-4050: 4 Logic level

Dry Contact 0: Open
1: Close to DI COM
Wet Contact 0: 0 ~ 3 V_{DC} (0.8 mA max.) 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 WISE-4050: 4

(Open collector to 30 V, 500 mA max. for

resistance load)

3,000 V_{rms} Isolation

■ On Resistance (RDS(ON)) 0.3 Ω (max.) @ 500mA, 25°C

Supports 1 kHz Pules Output

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

Relay Output

WISE-4012: 2 (Form A) WISE-4060: 4 (Form A) Channels 250 V_{AC} @ 5 A 30 V_{DC} @ 3A Contact Rating

 $3,000 V_{rms}$ Isolation Relay On Time 10 ms **Relay Off Time**

 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

Environment

-25 ~ 70°C (-13~158°F) **Operating Temperature 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 and power)

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

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

Enclosure

Mounting DIN 35 rail, wall, and stack

Power Input $10 \sim 30 V_{DC}$

Power Reversal Protection

Supports User Defined Modbus Address

Supported Protocols Modbus/TCP, TCP/IP, UDP, DHCP, and HTTP

Supported Web Services REST, HTML 5, Java Script, JSON

Supports System Configuration Backup and User Access Control

Ordering Information

 WISE-4012 4-ch Universal Input and 2-ch Relay Output Wireless IoT Ethernet I/O Module WISE-4050 4-ch Digital Input and 4-ch Digital Output Wireless IoT Ethernet I/O Module WISE-4060 4-ch Digital Input and 4-ch Relay Output Wireless IoT Ethernet I/O Module

Selection Table

Model Name	Universal Input	Digital Input	Digital Output	Relay Output
WISE-4012	4			2
WISE-4050		4	4	
WISE-4060		4		4