# **WISE-4000LAN Series**

## IoT Ethernet I/O Module



## **Main Features**

- IEEE 802.3u 10/100Base-T(X)
- Industrial grade operating temperature -40~70°C
- Supported Protocols: Modbus/TCP, TCP/IP, UDP, DHCP, HTTP, MQTT
- Supports RESTful web API in JSON format
- Supports local logging with RTC timestamp
- Supports mobile device web configuration in HTML5
- Supports 10~30V<sub>DC</sub> power with reverse protection

Vertrieb durch



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# Introduction

The WISE-4000LAN series is a newly designed IoT Ethernet I/O module which supports new RESTful web API for IoT applications. A HTML5 web configure interface enables users to configure WISE modules without the limitation of a platform or operation system. The built-in data logger function logs data with time information, then be retrieved in a bundle. Wide operating temperatures enable the WISE series to be implemented in more IoT data acquisition applications. As well as the new functions, the new mechanical design can let users install the module and doing diagnostics in an easier manner than before.

# **Specifications**

#### **Current Input**

Channel WISE-4010LAN: 4 (differential)

Resolution

**Sampling Rate** 10/100 Hz/channel ±0.2% of FSR @ 25°C Accuracy **Input Range** 0~20 mA, 4~20 mA Input Impedance

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

Supports Data Scaling and Averaging

#### **Digital Input**

Channels WISE-4050LAN: 4 WISE-4060LAN: 4 - Logic level: Dry Contact 0: Open

1: Close to DI COM

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

Isolation

Supports 32-bit Counter Input Function (Maximum frequency 3kHz)

Keep/Discard Counter Value when Power-off

Supports Frequency Input Function (Maximum frequency 3 kHz)

Supports Inverted DI Status

### **Digital Output**

Channels WISE-4010LAN: 4

WISE-4050LAN: 4

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

resistance load)

3,000 V<sub>rms</sub> (WISE-4050LAN only)

Supports 1 kHz Pulse Output

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

#### **Relay Output**

Isolation

Channels WISE-4060LAN: 4 (Form A) Contact Rating 250 V<sub>AC</sub> @ 5 A

30 V<sub>DC</sub> @ 3 A (Resistive Load) • Isolation (b/t coil & contact) 3,000 V<sub>rms</sub> Relay On Time 10 ms **Relay Off Time** 5 ms

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

Supports Pulse Output

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

Ethernet I/O Modules

#### **Environment**

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

#### General IAN

IEEE 802.3u 10/100Base-T(X)

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

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

Certification CE, FCC, RoHS Dimensions (W x H x D) 80 x 98 x 25 mm

**Enclosure** 

Mounting DIN 35 rail, wall, and stack

**Power Input**  $10 \sim 30 \; V_{\text{DC}}$ 

WISE-4010LAN: 1.2 W @ 24 V<sub>DC</sub> WISE-4050LAN: 2.2 W @ 24 V<sub>DC</sub> WISE-4060LAN: 2.5 W @ 24 V<sub>DC</sub> Power Consumption

**Power Reversal Protection** 

Supports Data Log Function Up to 10000 samples with timestamp

Supports User Defined Modbus Address

Supported Protocols: Modbus/TCP, TCP/IP, UDP, DHCP, HTTP, MQTT

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-4010LAN-B 4-ch Current Input and 4-ch Digital Output

IoT Ethernet I/O Module

WISE-4050LAN-B 4-ch Digital Input and 4-ch Digital Output

IoT Ethernet I/O Module

WISE-4060LAN-B 4-ch Digital Input and 4-ch Relay Output IoT Ethernet I/O Module

## **Selection Table**

Model Name	Current Input	Digital Input	Digital Output	Relay Output
WISE-4010LAN	4		4	
WISE-4050LAN		4	4	
WISE-4060LAN		4		4



