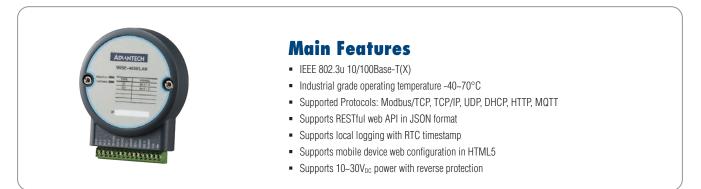
WISE-4000LAN Series

IoT Ethernet I/O Module



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
- Resolution
- Sampling Rate
- Accuracy
- Input Range
- Input Impedance
- Burn-out Detection
- Supports Data Scaling and Averaging

Digital Input

Channels

WISE-4060LAN: 4 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.) 3,000 V_{rms}

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

12-bit

 120Ω

10/100 Hz/channel

0~20 mA, 4~20 mA

Yes (4~20 mA only)

WISE-4050LAN: 4

±0.2% of FSR @ 25°C

WISE-4010LAN: 4 (differential)

- 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)
 Isolation 	3,000 Vrms (WISE-4050LAN only)

- Supports 1 kHz Pulse Output
- Supports High-to-Low and Low-to-High Delay Output

Relay Output

 Channels 	WISE-4060LAN: 4 (Form A)		
Contact Rating	250 V _{AC} @ 5 A		
(Resistive Load)	30 V _{DC} @ 3 A		
 Isolation (b/t coil & contact) 	3,000 V _{rms}		
 Relay On Time 	10 ms		
 Relay Off Time 	5 ms		
Insulation Resistance	1 G Ω min. @ 500 V _{DC}		
 Maximum Switching 	60 operations/minute		

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

Environment

- Operating Temperature
- Storage Temperature
- **Operating Humidity**
- **Storage Humidity**

General

- LAN
- Connectors
- Watchdog Timer
- Certification
- Dimensions (W x H x D)
- Enclosure
- Mounting •
- Power Input •
- Power Consumption
- WISE-4010LAN: 1.2 W @ 24 V_{DC} WISE-4050LAN: 2.2 W @ 24 V_{DC} WISE-4060LAN: 2.5 W @ 24 V_{DC}

DIN 35 rail, wall, and stack

-40~70°C (-40~158°F)

-40 ~ 85°C (-40~185°F)

20 ~ 95% RH (non-condensing)

0~95% RH (non-condensing)

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

System (1.6 second) and Communication (programmable)

CE. FCC. RoHS

 $10 \sim 30 V_{DC}$

80 x 98 x 25 mm

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

- 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

PC.

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