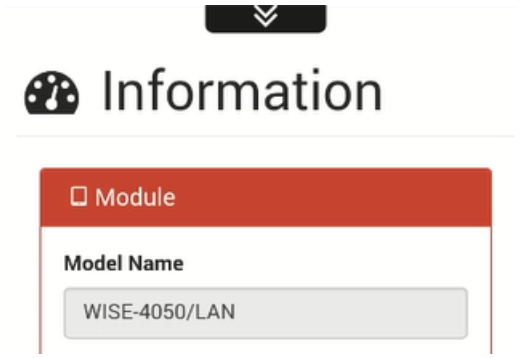
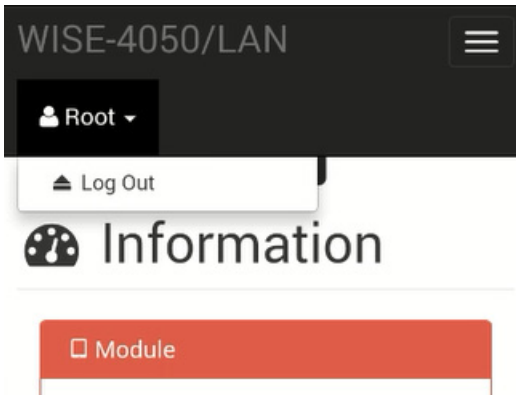
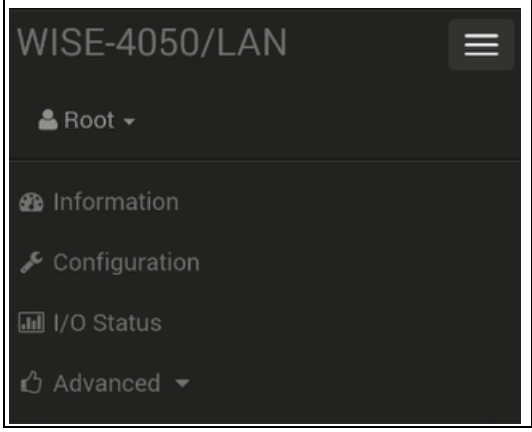
4.2.6 Using a Browser to Configure the Module

- Configure URL: http://IP_address/config
- Default URL:
  WISE-4000/LAN Series: http://10.0.0.1/config
  WISE-4000 Wireless Series: http://192.168.1.1/config
- Configuration Steps

Login Web Configuration Page	
	1. Wirelessly connect your smart phone to your local Ethernet network and open the browser of your smart phone. 2. Enter IP address of module with "/config", for example, the default URL: http://10.0.0.1/config or http://192.168.1.1/config 3. Then you will see the login page, please enter the account and password, then click Login button
	4. After login you will see the configuration web page
	5. Scroll down the tab, you can change the login user here
	6. Click the button on the top, you can switch to other pages

4.2.2 List of WISE-4000 Default Ethernet Ports

Application	Protocol	Port	Note
WebServer	TCP	80	Configurable
Modbus Server	TCP	502	-
Search Engine	UDP	5048	-
SNTP Client	UDP	-	Randomly

4.2.3 Factory Default Settings

WISE-4000/LAN Series

- Operation Mode: Normal Mode
- IP Mode: Static IP Address
- Default IP: 10.0.0.1
- Subnet Mask: 255.0.0.0
- Default Gateway: 0.0.0.0
- Default Connection Timeout: 720 second
- HTTP Port: 80

WISE-4000 Wireless Series

- Operation Mode: Normal Mode
- Wireless Mode: AP Mode
- IP Mode: Static IP Address
- Default IP: 192.168.1.1
- Subnet Mask: 255.255.255.0
- Default Gateway: 192.168.1.1
- DHCP Server: Enabled
- Default Connection Timeout: 720 second
- HTTP Port: 80

4.2.4 Module Authorization

Account	Default Password	Access Ability
root	00000000	All the privileges
admin	00000000	All the privileges except access control configuration
user	00000000	View module status only, not allow to do configuration

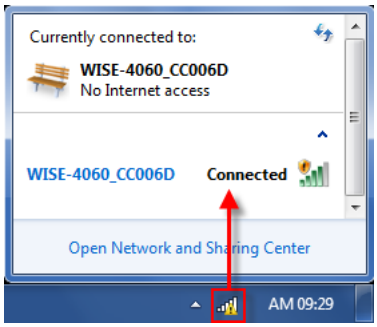
4.2.5 Operation Mode

The operation mode can be configured by switch SW1 on the back of module. Please refer to previous chapter for the detail of configuring SW1.

Mode	WISE-4000/LAN Series	WISE-4000 Wireless Series
Initial Mode	Fixed IP address: 10.0.0.1	Fixed IP address: 192.168.1.1 Fixed Wi-Fi Mode: AP Mode
Normal Mode	Default IP address: 10.0.0.1	Default IP address: 192.168.1.1 Default Wi-Fi Mode: AP Mode

4.1 Connection

1. Plug a DC power source into the +Vs, -Vs pin of WISE module to turn the power on, or plug in the USB power cable for the WISE-4012E.
2. For WISE-4000/LAN Series, connect your computer to Ethernet port of WISE module with RJ-45 cross-over Ethernet cable, and configure the IP address of your computer as same IP domain as default IP address of module: 10.0.0.1. Or the wireless router can be used for configure the WISE-4000/LAN Series by mobile devices or computer with wireless adapter.
3. For WISE-4000 Wireless Series, the default operation mode in normal mode is AP Mode, or you can change position 1 of SW1 to OFF as in Section 1.5, to setting the module as Initial Mode, then module must be AP Mode. Now the module can be searched by mobile devices or wireless adapter of computer with SSID: WISE-4xxx_MACAddress. Click the SSID to connect the module in AP Mode, WISE module will auto assign the IP address for mobile devices or computer.



4.2 Configure WISE Using the Web Interface

4.2.1 System Requirements

WISE-4000 module is developed by public HTML 5 base, but for detailed indication and data transmission mode may be different on Web page of the operating system.

For mobile devices, the minimum requirement of web browsers as below:

- Safari 6 in Apple iOS
- Web Browser in Google Android 4.0 (Ice Cream Sandwich)
- Chrome in Google Android 4.0 (Ice Cream Sandwich)

Mobile Browse	Chrome	Android	Safari
Configuration	Y	Y	Y
File Upload	N	N	N
Data Log Chart	Y	Y	Y
Data Log Export	N	N	N

For PC platforms, the minimum requirement of web browsers as below:

- Internet Explorer (version 11)
- Google Chrome (version 30)
- Mozilla Firefox (version 25)

Mobile Browse	Chrome	Firefox	Safari	IE11	IE10	IE9
Configuration	Y	Y	Y	Y	Y	Y
File Upload	Y	Y	N	Y	N	N
Data Log Chart	Y	Y	Y	Y	Y	N
Data Log Export	Y	Y	N	N	N	N

Chapter 4

System Configuration

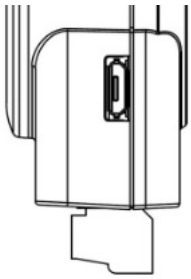


Figure 3.11 USB Power Supply Wiring

3.3.3 I/O Units

The system uses a plug-in screw terminal block for the interface between I/O modules and field devices. The following information must be considered when connecting electrical devices to I/O modules.

1. The terminal block accepts wires from 0.5 mm to 2.5 mm.
2. Always use a continuous length of wire. Do not combine wires.
3. Use the shortest possible wire length.
4. Use wire trays for routing where possible.
5. Avoid running wires near high-energy wiring.
6. Avoid running input wiring in close proximity to output wiring.
7. Avoid creating sharp bends in the wires.

3.3 Wiring & Connections

This section introduces basic information on wiring the power supply, I/O units, and Ethernet connection.

3.3.1 Power Supply Wiring (Not for WISE-4012E)

The system of WISE-4000 is designed for a standard industrial unregulated 24 V_{DC} power supply. For further application, it can also accept +10 to +30 V_{DC} of power input, 200mV peak to peak of power ripple, and the immediate ripple voltage should be maintained between +10 and +30 V_{DC}.

Screw terminals +Vs and -Vs are for power supply wiring

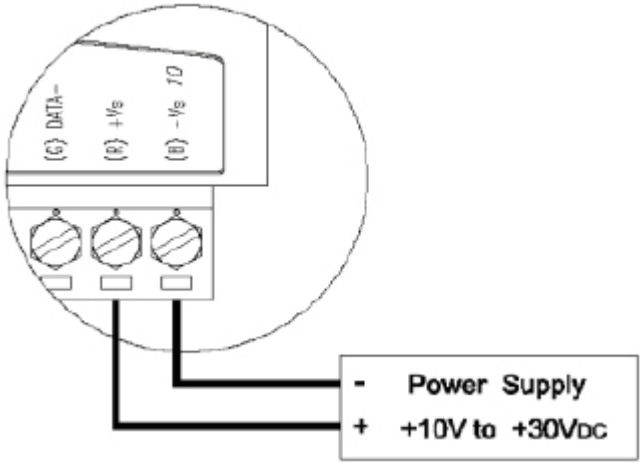


Figure 3.10 Power Supply Wiring

Note! *The wires used should be at least 2 mm.*

3.3.2 USB Power (WISE-4012E Only)

The system of WISE-4012E IoT Developer Kit is designed for a standard Micro-B USB 5V_{DC} power supply. Use the provided USB power cable to power up the module. Insert the Micro-B USB end to the USB port on the side of the module, and insert another end to Type-A 5V_{DC} USB port such as a PC, notebook, USB power adapter, USB power bank.

Note! The wider or flared part of the USB Micro-B connector is at the front side of the module, please make sure the direction of the cable before inserting it into the module to prevent the damage to the USB port.

Some USB power banks will automatically switch off, in this case, use a standard USB power instead.

3.2.3 Stack Mounting

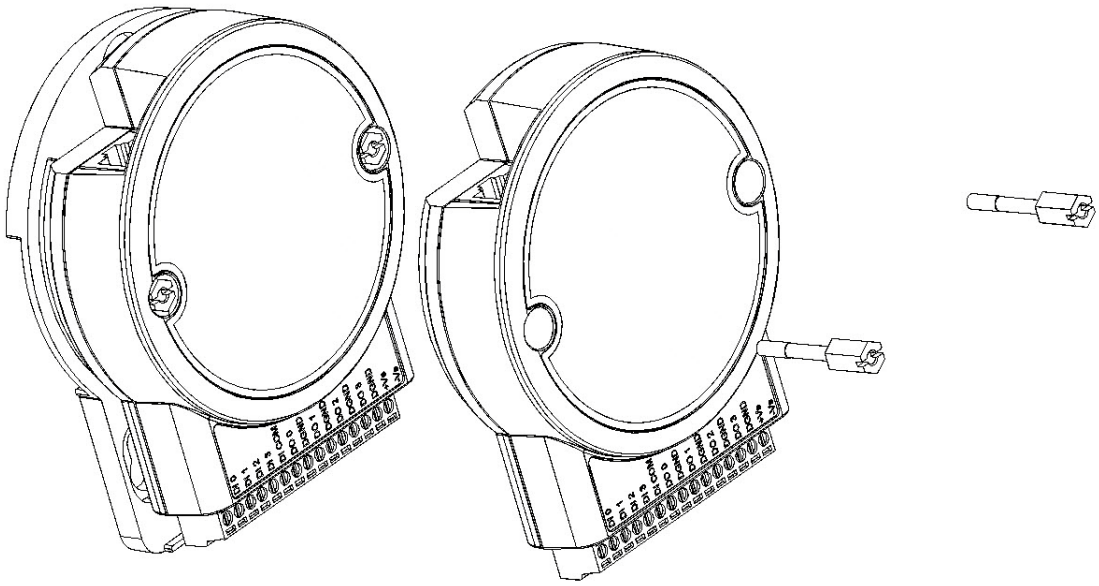


Figure 3.8 Stack Mounting

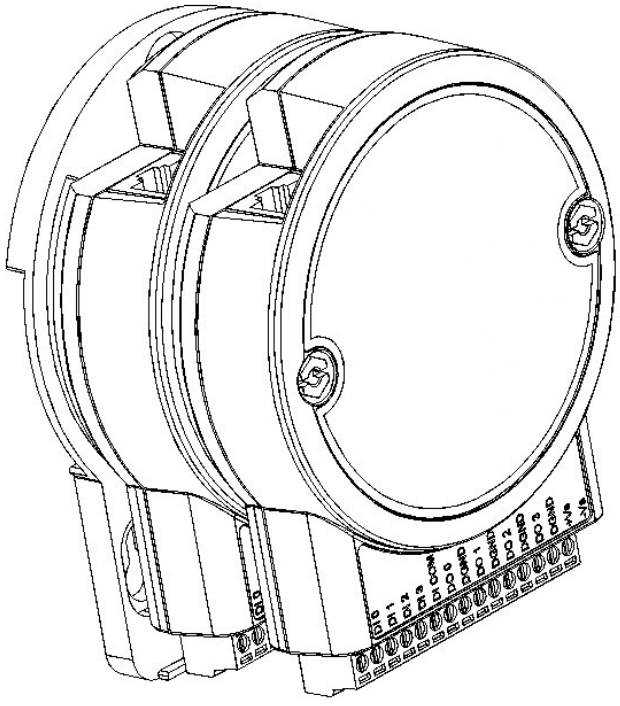


Figure 3.9 Finished Stack Mounting