

Remote I/O Controller

Quick Installation & Simple Test Guide (CIE - H12)

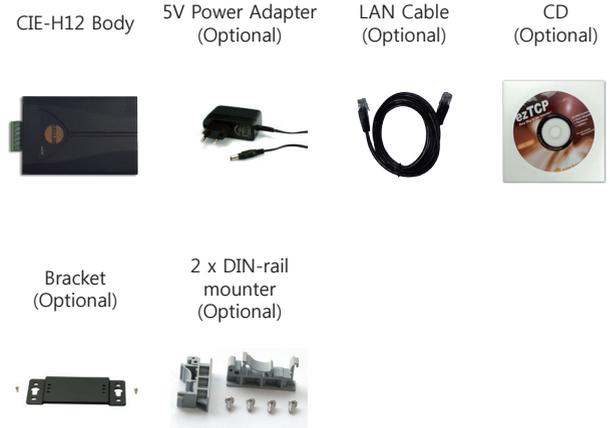


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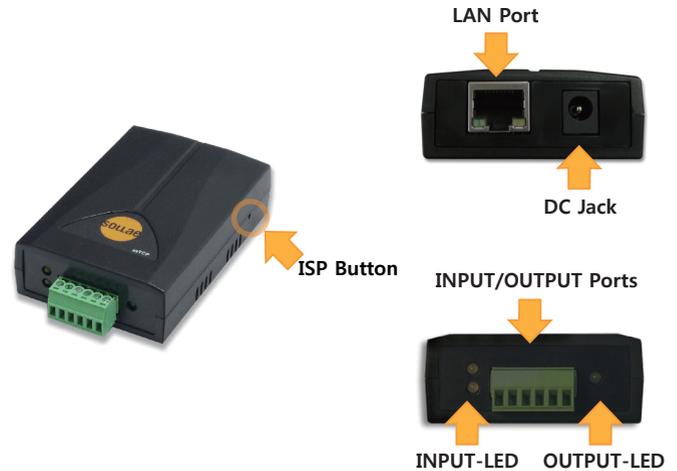
Thank you for purchasing our CIE-H12. Before you use the product, refer to this document for basic configuration and simple test.

- CONTENTS OF THIS DOCUMENT(H/W, S/W, FORM OF PRODUCTS) WOULD BE CHANGED WITHOUT ANY NOTICE.
- THIS PRODUCT COULD BE POSSIBLE TO BE UNAVAILABLE OR LIMITED UNDER INAPPROPRIATE NETWORK CONDITION.
- IF ACCIDENTS OR LOSS MAY OCCUR USING THIS PRODUCT, SOLLAE SYSTEMS WILL NOT BE LIABLE FOR ANY COMPENSATION.

Components



Features



Basic Installation

Connecting 5V Power

Connect 5V power adaptor to the CIE-H12 body.



Connecting a PC with a LAN cable

The green light on LINK LED means proper operation of CIE-H12 after connecting your PC to the CIE-H12 body with LAN cable.



Checking LED

Check LEDs whether the STS blinks every second.

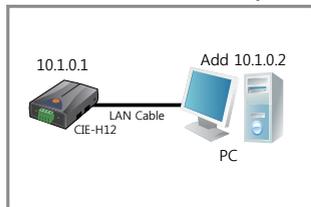


Configuration of parameters

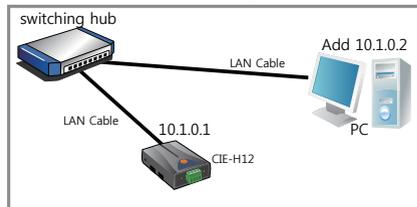
After executing the ezManager program, which can be downloaded at our website (<http://www.sollae.co.kr>), click **[Search All]** located in the left bottom. And configure related settings for your network environment, checking the MAC address is the same as the CIE-H12's.



When connected with a PC directly



When connected with a switching hub



Connection map for configuration and the communication test

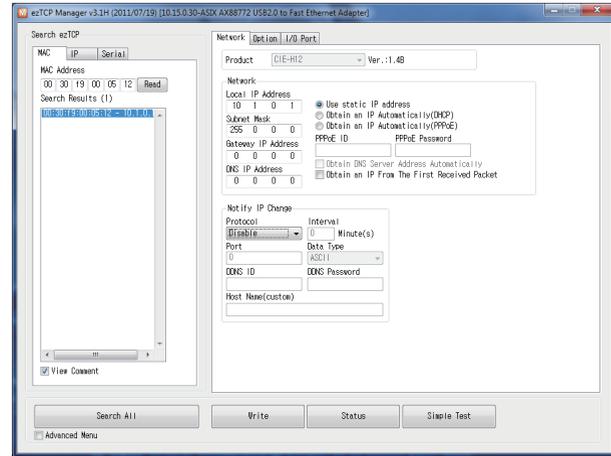
Configuration

Configuration with ezManager

※ Note that you must set all the parameters prior to use CIE-H12.

Use the ezManager program for parameters configuration.

- 1 Refer to the 'Basic Installation' to connect your PC with CIE-H12.



ezManager

- 2 Execute the ezManager program.
(The latest version of ezManager can be downloaded at <http://www.sollae.co.kr>)
- 3 Search CIE-H12 on the same network by clicking **[Search All]**.
- 4 As soon as completed, the CIE-H12's MAC address will come up on the screen.
- 5 Input all the parameters in each configuration tab.

[Network]	Local IP address, subnet mask, gateway IP address and etc.
[Option]	Telnet, Debugging Message, ezTCP firewall and etc.
[I/O Port]	HTTP, Modbus/TCP control Time for signal maintenance, initial state of output port and etc. Master/Slave, Unit ID, I/O port address and etc.

Lists available to configure in each tab

- 6 Save the parameters clicking **[Write]** after configuration, CIE-H12 will then operate properly as it is rebooted automatically.
- 7 Check a firewall is OFF unless CIE-H12 is searched properly. Including private firewalls for users such as vaccine(V3, Norton, etc.), all the firewalls should be OFF by clicking **[Advanced Menu]** and **[Windows firewall]** in a row if it is ON.

Simple Test

※ This is the test procedure for checking proper operation of CIE-H12 as well as how it works.

1. Reset

The factory default IP is 10.1.0.1 and subnet mask is 255.0.0.0.

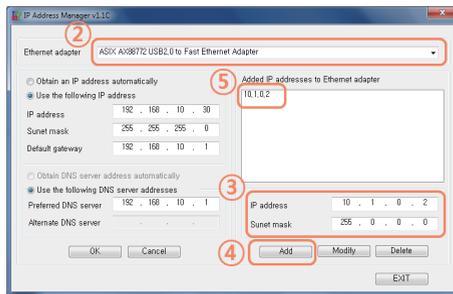
In case that CIE-H12 has the different parameters from above, reset it as follows:

- 1 Click **[Search All]** on ezManager.
- 2 Click the MAC address of CIE-H12 which has to be reset, and check **[Advanced Menu]**.
- 3 Reset CIE-H12 by clicking **[Factory Reset]**.

2. Set the band for the communication test of a PC and CIE-H12

You can carry out the data communication test procedure as follows:

- 1 Execute the IP Manager program.
(You can download it at <http://www.sollae.co.kr>)



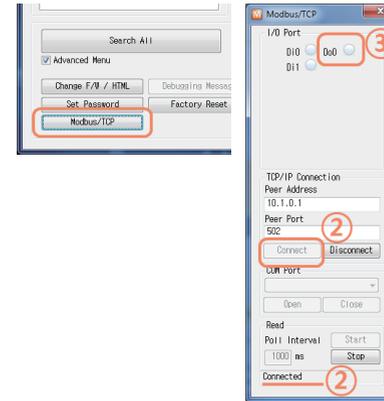
- 2 Choose the network adaptor linked to CIE-H12.
- 3 Input IP 10.1.0.2 and subnet mask 255.0.0.0.
- 4 Click **[Add]**.
- 5 Confirm above addresses has been added completely.
※ Note that 5 may not come up on the screen if the network adaptor is configured for DHCP. This is not an error, so please keep continuing.

Simple Test

3. Communication Test

Take the following steps for each communication test.

3.1. Modbus/TCP Test



- 1 Check **[Advanced Menu]** and click **[Modbus/TCP]** located in the bottom of ezManager to run a test window.
- 2 Connected to CIE-H12 by clicking **[Connect]**, the "Connected" message will show up.
- 3 Test an output port's ON/OFF by clicking a radio button.

3.2. HTTP Test



- 1 Run a web browser such as Internet Explorer, Chrome, FireFox and etc.
- 2 Enter CIE-H12's IP address in an address input box.
- 3 Test an output port's ON/OFF by clicking a LED image button.

3.3. Test with ModMap

※ ModMap is a Modbus/TCP program for management of CIE-H12/CIE-M10/CIE-H10/EZI-10. You can get more information at our website.

<http://www.eztcp.com/en/support/modmap.php>

Simple Test is over. Please modify the settings for your application.

Check List for the Malfunction

1. When CIE-H12 is not searched.

- Check LEDs.

Confirm LAN port LINK LED is ON and STS LED blinks every second.

- Shut down all the firewalls working.

Click [Windows Firewall] in [Advanced Menu] to shut down all the firewalls.

- Click [Search All] after configuring for the ISP mode.

CIE-H12 may not be searched if ezTCP Firewall has been set up. Press the ISP switch more than a second to access the ISP mode. When you forget the password, the new one can be set in the ISP mode. Only the LINK LED is ON in this mode.

- When searching the IP address is unavailable.

Type the IP address in [IP] input box and click [Read] to search CIE-H12. As CIE-H12 is not searched when IP Address Search Option has been canceled, check the following things first.

- ① PING Test (refer to 8 Page 5. PING Test)
- ② Use UDP 50005 port for searching the IP address. In case that this port is blocked on some networks, consult the network administrator.

2. When communication is unavailable.

- Check through the Basic Installation again.

- Check the PING's response. (refer to 5. PING Test for the details.)

- Check the current connection status. (refer to 4. Check of The Current Status)

Attempt to communicate again after closing the existing host connection.

- Unblock the settings of [ezTCP Firewall] in option tab.

The device can be connected if you input the accessible MAC address and the IP address band.

3. Check LEDs.

Place	Name	Color	LED Status	Description
LAN Port	STS	Yellow	Blinks every second	Assigned the Dynamic IP address
			Blinks 4 times at once	Without being assigned the Dynamic IP address
	ON	Establishing a TCP connection		
	OFF	Operating for the ISP mode		
LINK	Green	ON	Establishing a connection on the network	
		Blink	Transferring and receiving network data	
Panel	Input	Yellow	ON	When input ports' signal is ON
	Output	Green	ON	When an output port's signal is ON

Check List for the Malfunction

4. Check of The Current Status with ezManager

- Choose the MAC address searched and click [Status].

- Check the status of IP Address/Subnet Mask/Gateway.

In case of a Static IP address, confirm it is available and in case of a Dynamic IP address, check that it is received properly.

- Check the Connection Message.

■ TCP STATE

- ESTABLISHED (Establishing a connection)
- LISTEN (Waiting for a connection)
- SYN_SENT (Attempting to connect)

※example

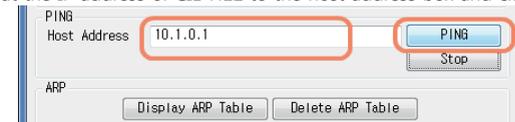
- ▷ [MODBUS – ESTABLISHED 10.1.0.2:4487]: Connection the status of IP 10.1.0.2 and MODBUS/TCP
- ▷ [MODBUS – LISTEN]: Waiting for a MODBUS/TCP connection
- ▷ [MODBUS – SYN_SENT 10.1.0.2:502]: Attempt a connection through the 502 port of 10.1.0.2 in active connection mode.

■ IO PORT STATUS

Confirm input ports' and an output port's ON/OFF state. (1:ON/0:OFF)

5. PING Test

- ① Click [PING/ARP] located in the right bottom of the browser window.
- ② Input the IP address of CIE-H12 to the host address box and click [PING].



- ③ Click [ARP Table]. If CIE-H12's MAC address and IP address are different from each other, it means other hosts are using the same IP address. In this case, set up CIE-H12's new IP address, otherwise it is not available due to IP collision.
- ④ Click [Delete ARP Table] to check the operation state with the PING test.

※ Support

If there are any questions regarding the product, please use FAQ or Q/A board in Sollae Systems' website.

Also, feel free to contact us by email. Email address: support@sollae.co.kr



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