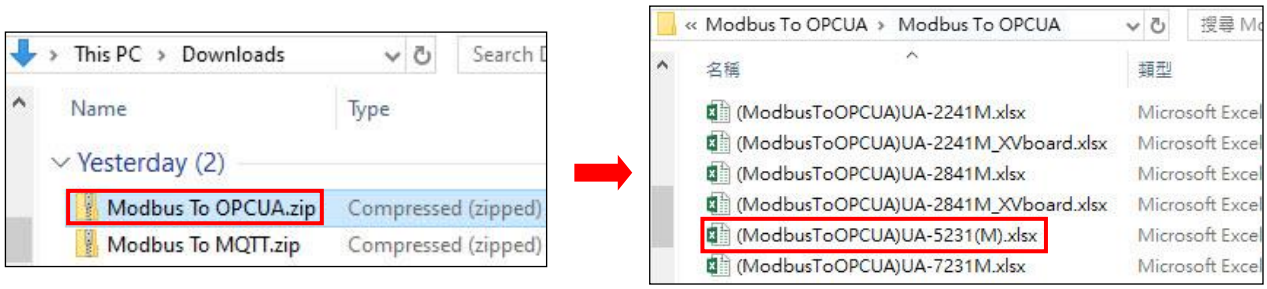
● How to Upload Modbus To OPC UA Template File? (Only for UA Communication Server V1.4.6.8 or above)

1. Download Template File

Please download the **Modbus To OPC UA** template file from the EZ-UAQ Utility website. The download link is as follows:
https://www.icpdas.com/en/download/show.php?num=8560&nation=TW&kind1=&model=&kw=EZ-UAQ

FILE NAME	VERSION	FILE DATE	SIZE	NOTE	
--<< Official Software >>--					
EZ-UAQ Utility V3.2.8	V3.2.8	2026-05-11	13.6 MB	zip	
-<< Beta Software >>-					
EZ-UAQ Utility V3.2.12	Beta	2026-05-26	13.6 MB	zip	
--<< Software ChangLog >>--					
EZ-UAQ Utility ChangLog(EN)		2026-05-26	8.56 KB	txt	
--<< Template file>>--					
Modbus To OPCUA		2025-09-30	102 KB	zip	
Modbus To MQTT		2026-03-31	146 KB	zip	

Then unzip this file, this example uses (Modbus To OPC UA) UA-5231(M).xlsx.



Note:

1. For UA-5231M-4GE configuration of “Modbus To OPC UA” or “Modbus To MQTT”, the user can use the template file of "UA-5231(M).xlsx" to edit.

2. The Excel file with the name "_XVboard" in the zip file is the template file for the UA using the XVboard module.

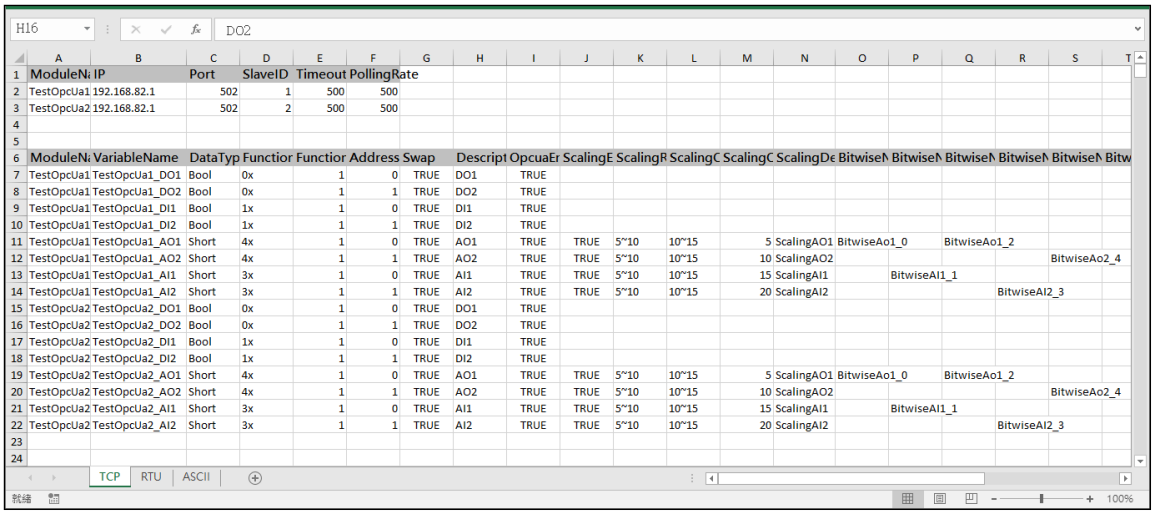
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2. Edit Template File

Use the Excel template file to edit **the Modbus To OPC UA** configuration (points and parameters).

Note: To edit the Excel file, please use the format of Numbers and Text, do not use formulas, otherwise it will display abnormal or incorrect.

✧ **Modbus To OPC UA template file:**



ModuleNa	IP	Port	SlaveID	Timeout	PollingRate
TestOpcUa1	192.168.82.1	502	1	500	500
TestOpcUa2	192.168.82.1	502	2	500	500

ModuleNa	VariableName	DataTyp	Functior	Functior	Address	Swap	Descript	OpcuaEr	ScalingE	ScalingR	ScalingC	ScalingC	ScalingDe	BitwiseN	BitwiseN	BitwiseN	BitwiseN	BitwiseN	Bitw
TestOpcUa1	TestOpcUa1_DO1	Bool	0x	1	0	TRUE	DO1	TRUE											
TestOpcUa1	TestOpcUa1_DO2	Bool	0x	1	1	TRUE	DO2	TRUE											
TestOpcUa1	TestOpcUa1_DI1	Bool	1x	1	0	TRUE	DI1	TRUE											
TestOpcUa1	TestOpcUa1_DI2	Bool	1x	1	1	TRUE	DI2	TRUE											
TestOpcUa1	TestOpcUa1_AO1	Short	4x	1	0	TRUE	AO1	TRUE	TRUE	5~10	10~15	5	ScalingAO1	BitwiseAo1_0		BitwiseAo1_2			
TestOpcUa1	TestOpcUa1_AO2	Short	4x	1	1	TRUE	AO2	TRUE	TRUE	5~10	10~15	10	ScalingAO2					BitwiseAo2_4	
TestOpcUa1	TestOpcUa1_AI1	Short	3x	1	0	TRUE	AI1	TRUE	TRUE	5~10	10~15	15	ScalingAI1		BitwiseAI1_1				
TestOpcUa1	TestOpcUa1_AI2	Short	3x	1	1	TRUE	AI2	TRUE	TRUE	5~10	10~15	20	ScalingAI2				BitwiseAI2_3		
TestOpcUa2	TestOpcUa2_DO1	Bool	0x	1	0	TRUE	DO1	TRUE											
TestOpcUa2	TestOpcUa2_DO2	Bool	0x	1	1	TRUE	DO2	TRUE											
TestOpcUa2	TestOpcUa2_DI1	Bool	1x	1	0	TRUE	DI1	TRUE											
TestOpcUa2	TestOpcUa2_DI2	Bool	1x	1	1	TRUE	DI2	TRUE											
TestOpcUa2	TestOpcUa2_AO1	Short	4x	1	0	TRUE	AO1	TRUE	TRUE	5~10	10~15	5	ScalingAO1	BitwiseAo1_0		BitwiseAo1_2			
TestOpcUa2	TestOpcUa2_AO2	Short	4x	1	1	TRUE	AO2	TRUE	TRUE	5~10	10~15	10	ScalingAO2					BitwiseAo2_4	
TestOpcUa2	TestOpcUa2_AI1	Short	3x	1	0	TRUE	AI1	TRUE	TRUE	5~10	10~15	15	ScalingAI1		BitwiseAI1_1				
TestOpcUa2	TestOpcUa2_AI2	Short	3x	1	1	TRUE	AI2	TRUE	TRUE	5~10	10~15	20	ScalingAI2				BitwiseAI2_3		

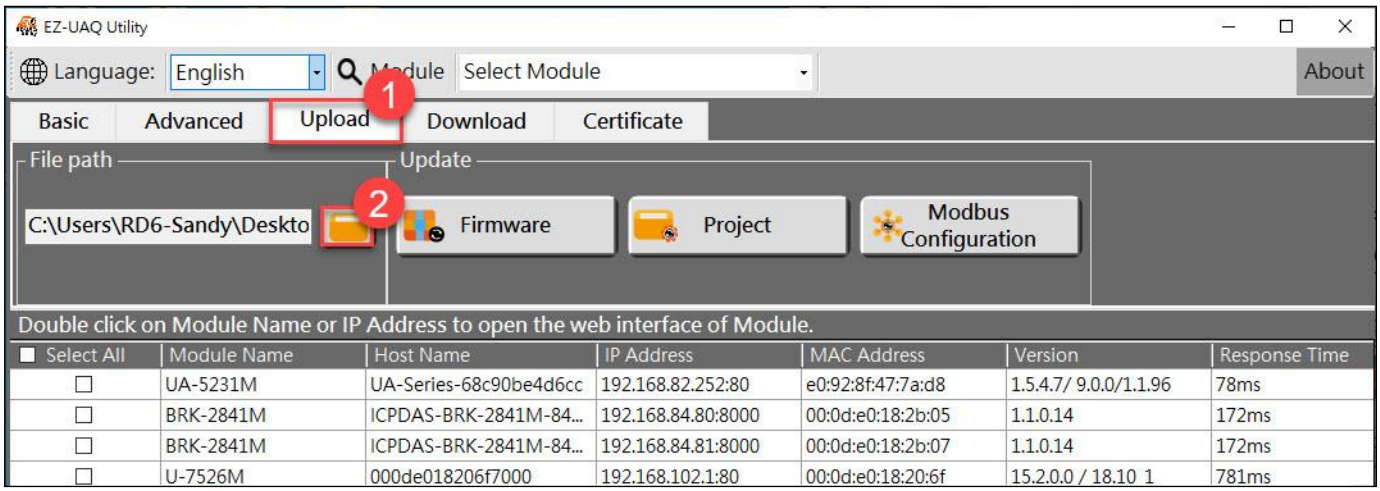
Note: For instructions on the **Modbus To OPC UA** template file, refer to **FAQ-008**.

3. Upload Template File

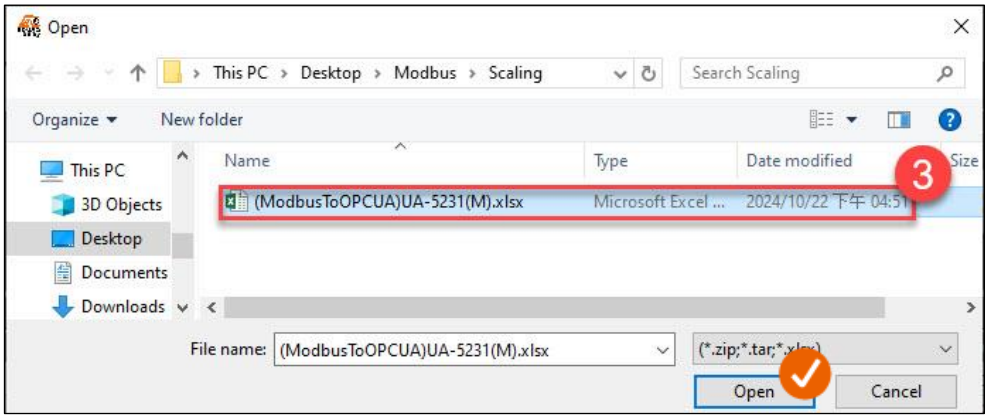
Upload the edited **Modbus To OPC UA** template file to the UA Communication Server via EZ-UAQ Utility.

Step 1: Select Template File

①Click the【**Upload**】→②Click the **[Browse]** button →③Select the template file

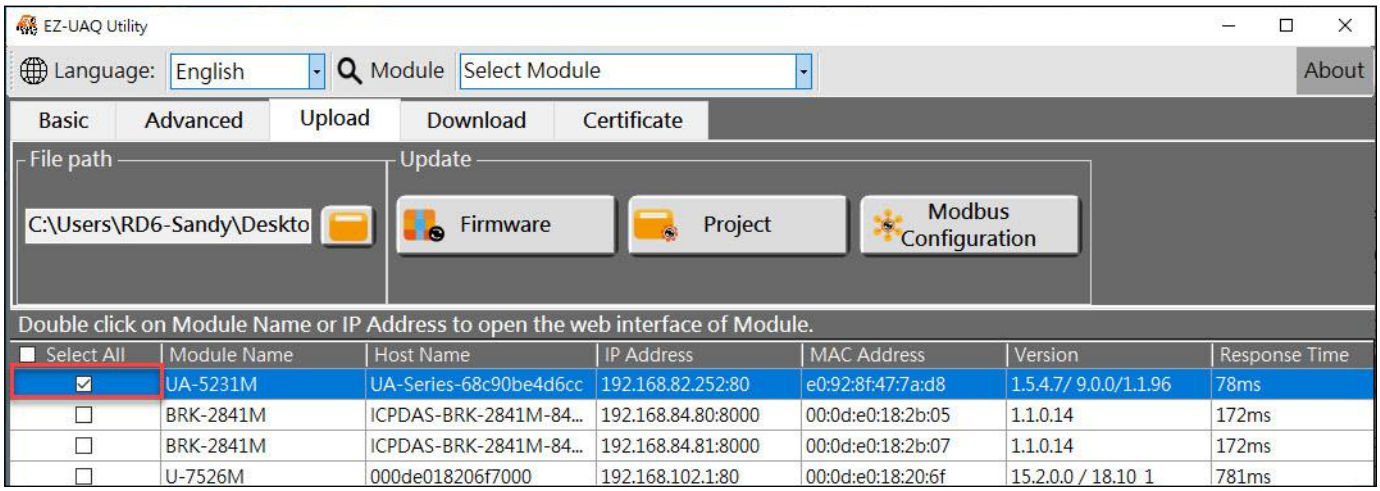


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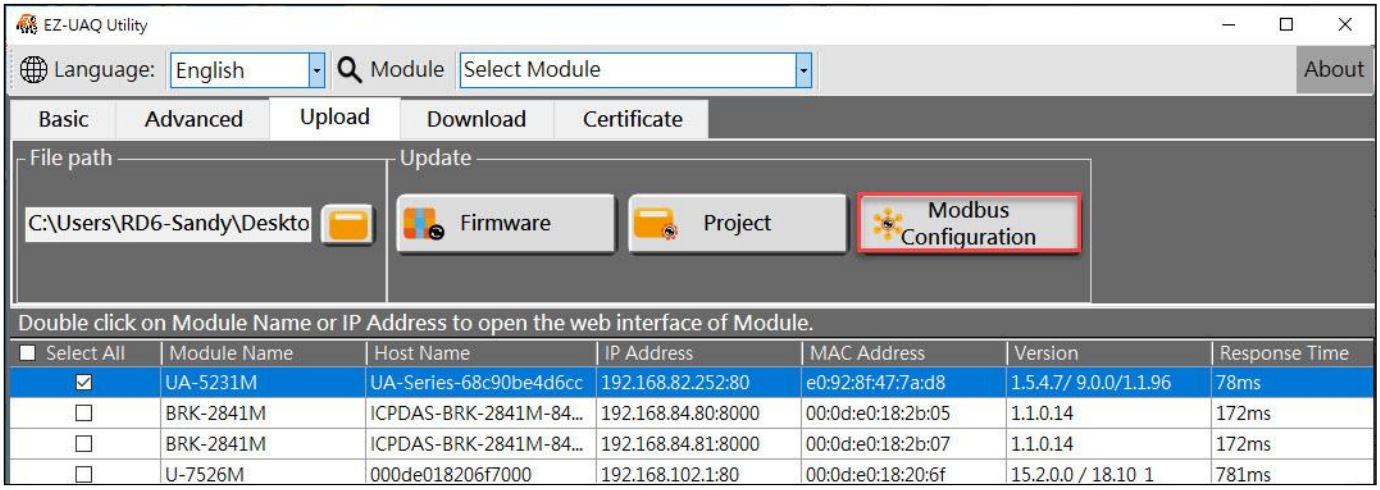
Step 2: Select Module

Check the module(s) to be updated.

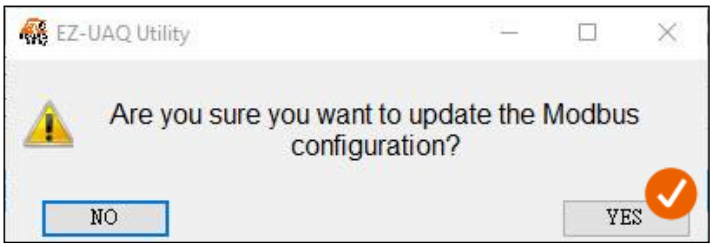


Step 3: Execute Modbus Configuration Update

Click the **[Modbus Configuration]** button. Two confirmation message windows will appear sequentially (Figure I and Figure II). Click **[YES]** in both windows.



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(Figure I)



(Figure II)

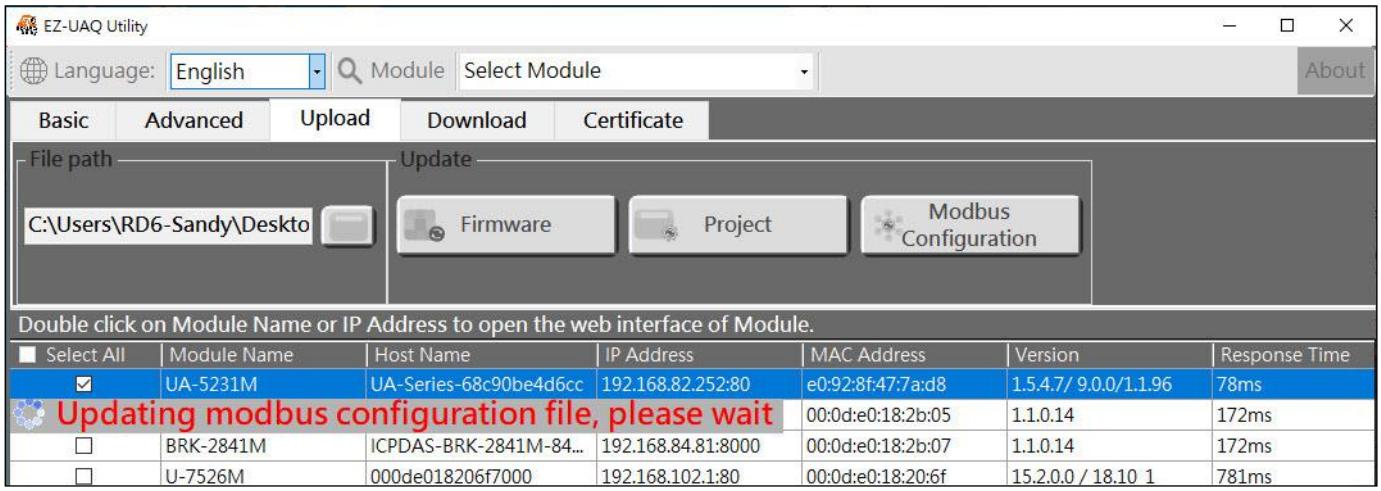
Step 4: Enter Password

After confirmation, a **"Password"** window will appear. Enter the EZ-UAQ Utility password configured in the module and click **[OK]**.



Step 5: Updating Modbus Configuration

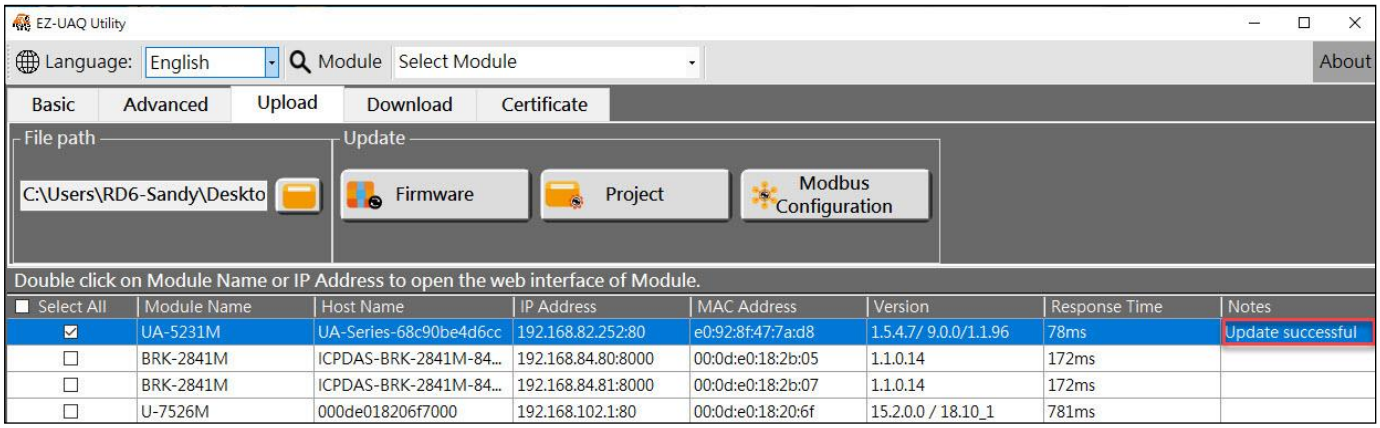
When the interface displays: "**Updating modbus configuration file, please wait**" the configuration file is being uploaded.



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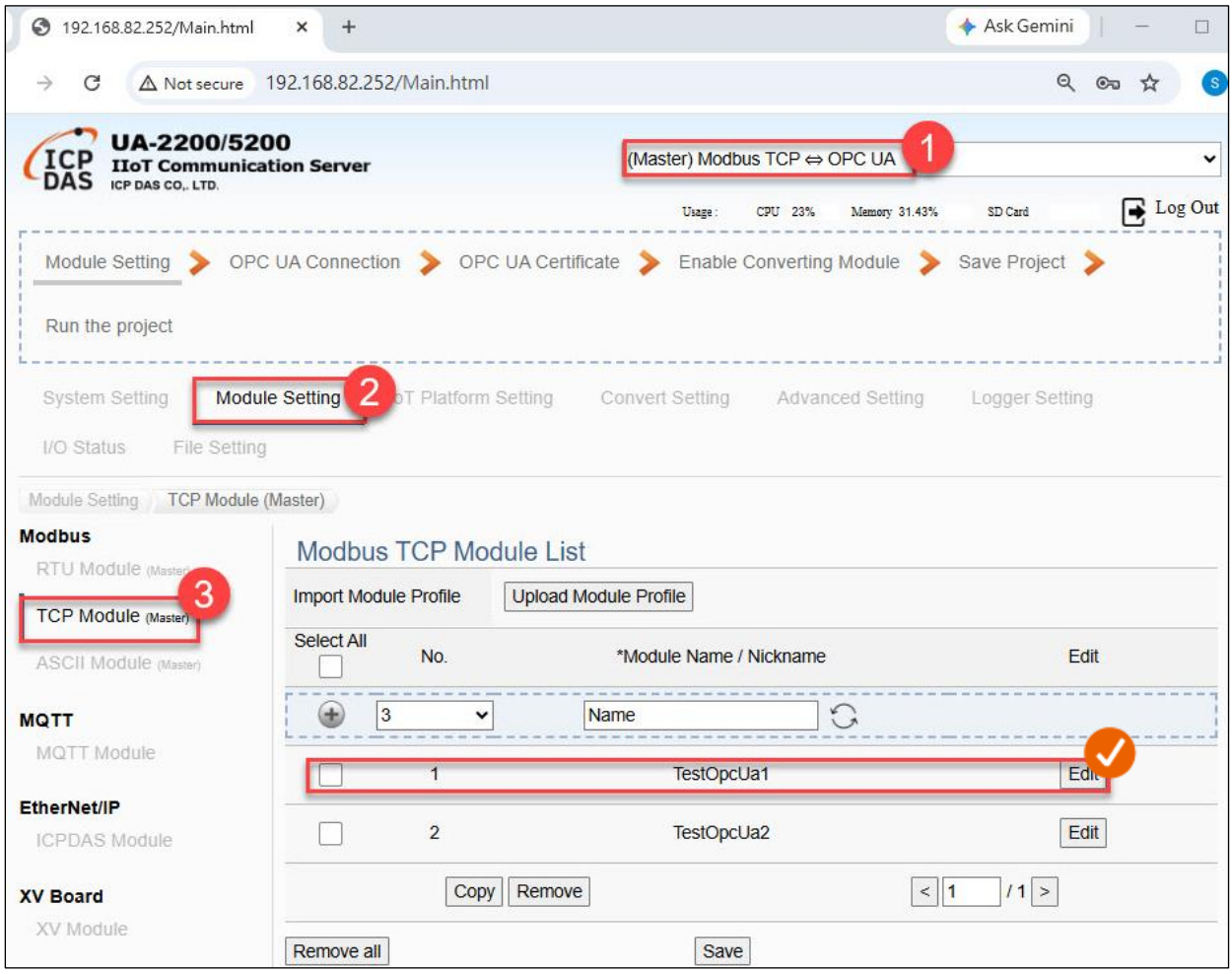
Step 6: **Modbus Configuration Update Completed**

After the update is completed successfully, the **[Notes]** field of the selected module(s) will display: **"Update Successful".**



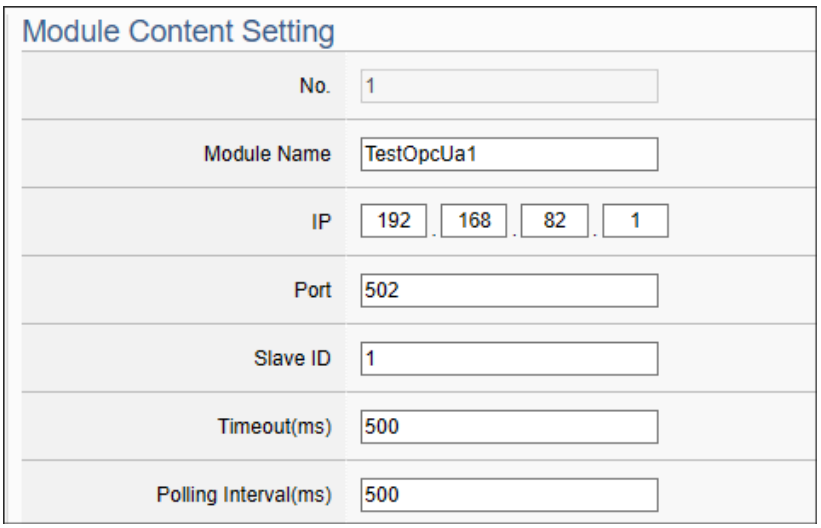
Note: To view the Modbus configuration data of the module, please log in to the UA webpage and click **① Modbus TCP <=> OPC UA > ② Module Setting > ③ TCP Module > Edit**, as shown below:

1. **TestOpcUa1 module data :**

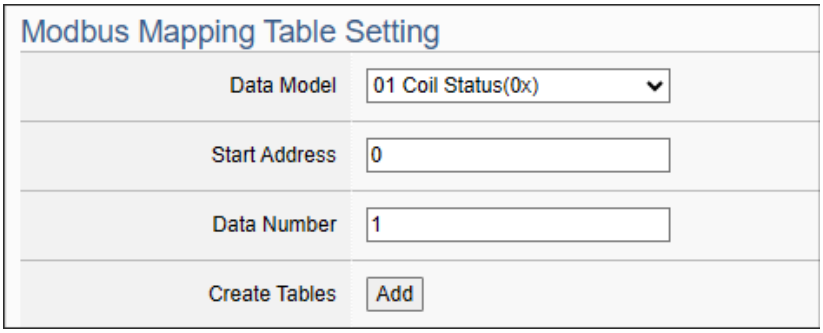


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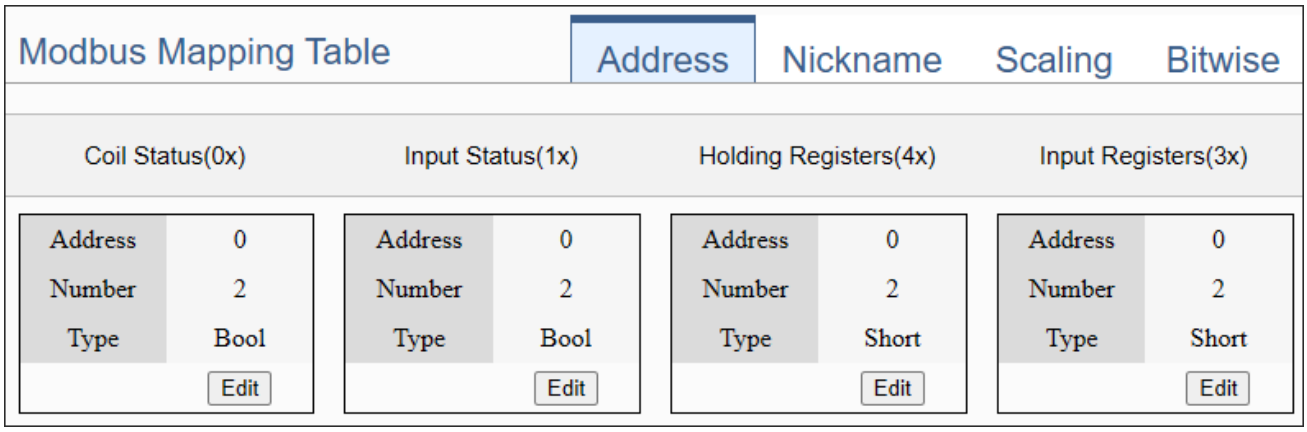
✧ Modbus TCP Module Setting



✧ Modbus Mapping Table Setting



✧ Modbus Mapping Table > Address Setting



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✧ Modbus Mapping Table > Nickname Setting

Modbus Mapping Table | Address | Nickname | Scaling | Bitwise

01 Coil Status(0x)

Table Display: Show Hide

Address	Variable name	Data Type	Description
0	TestOpcUa1_DO1	Bool	DO1
1	TestOpcUa1_DO2	Bool	DO2

02 Input Status(1x)

Table Display: Show Hide

Address	Variable name	Data Type	Description
0	TestOpcUa1_DI1	Bool	DI1
1	TestOpcUa1_DI2	Bool	DI2

03 Holding Registers(4x)

Table Display: Show Hide

Address	Variable name	Data Type	Swap	Description
0	TestOpcUa1_AO1	Short	☑	AO1
1	TestOpcUa1_AO2	Short	☑	AO2

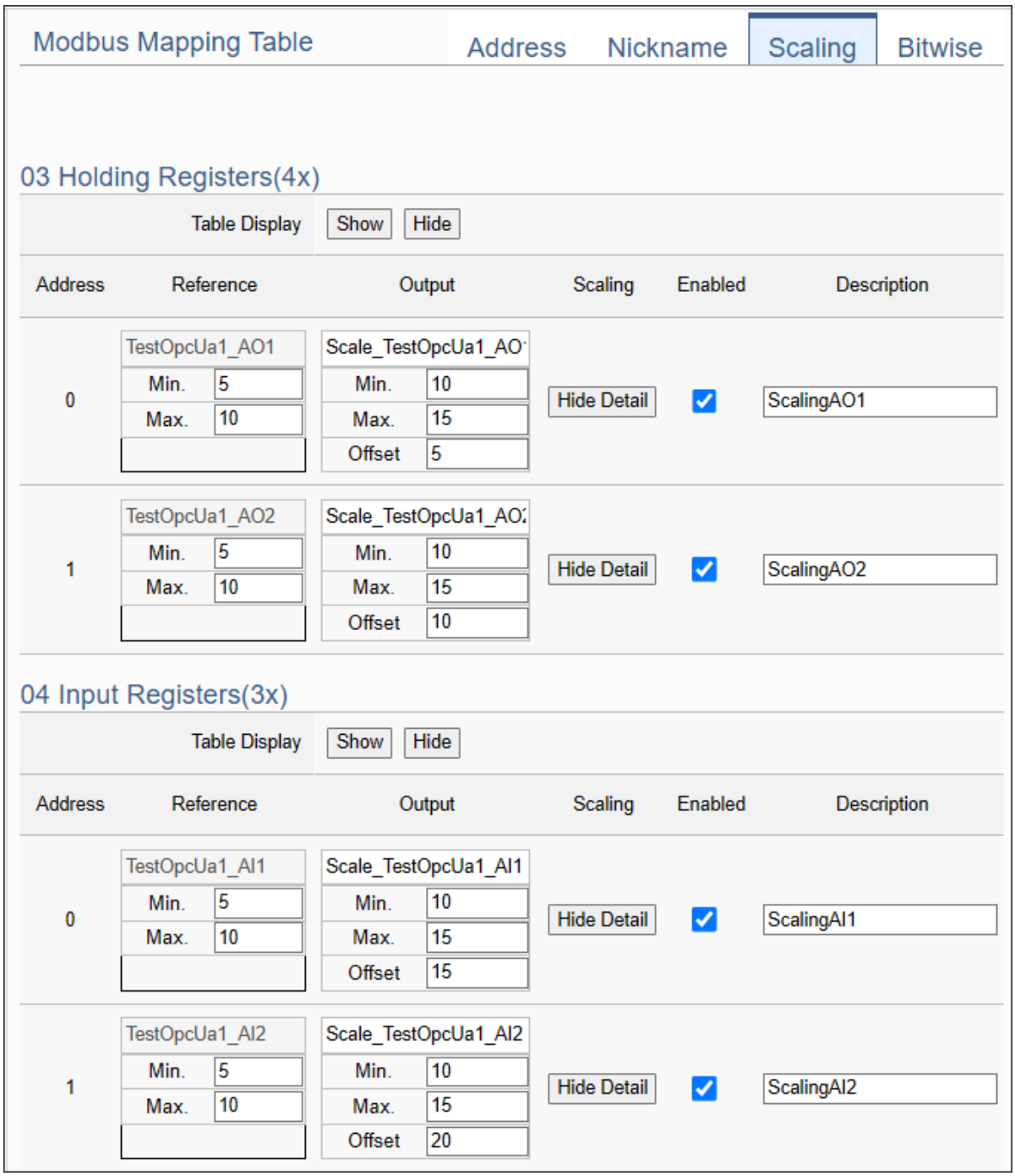
04 Input Registers(3x)

Table Display: Show Hide

Address	Variable name	Data Type	Swap	Description
0	TestOpcUa1_AI1	Short	☑	AI1
1	TestOpcUa1_AI2	Short	☑	AI2

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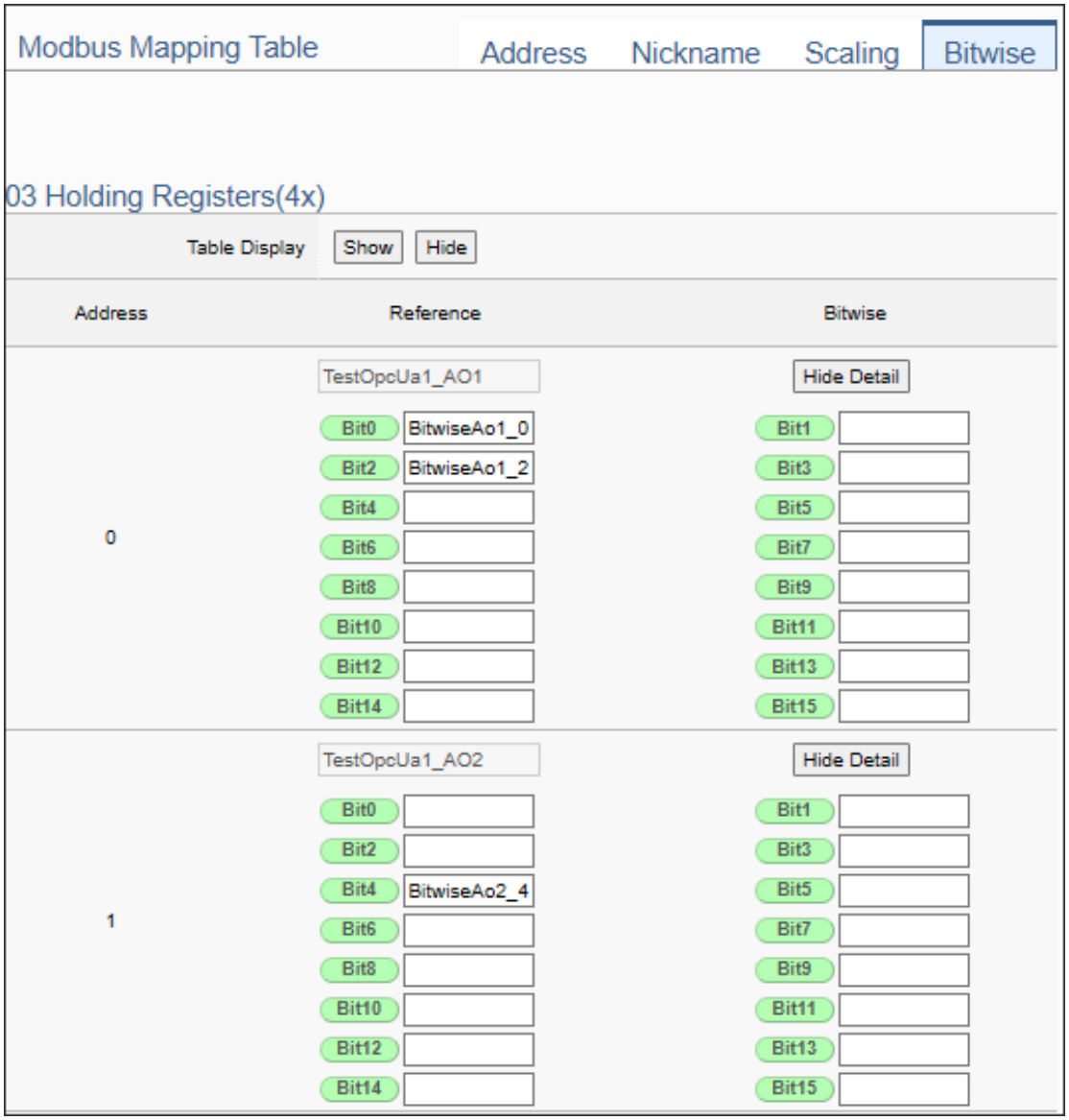
✧ Modbus Mapping Table > Scaling Setting



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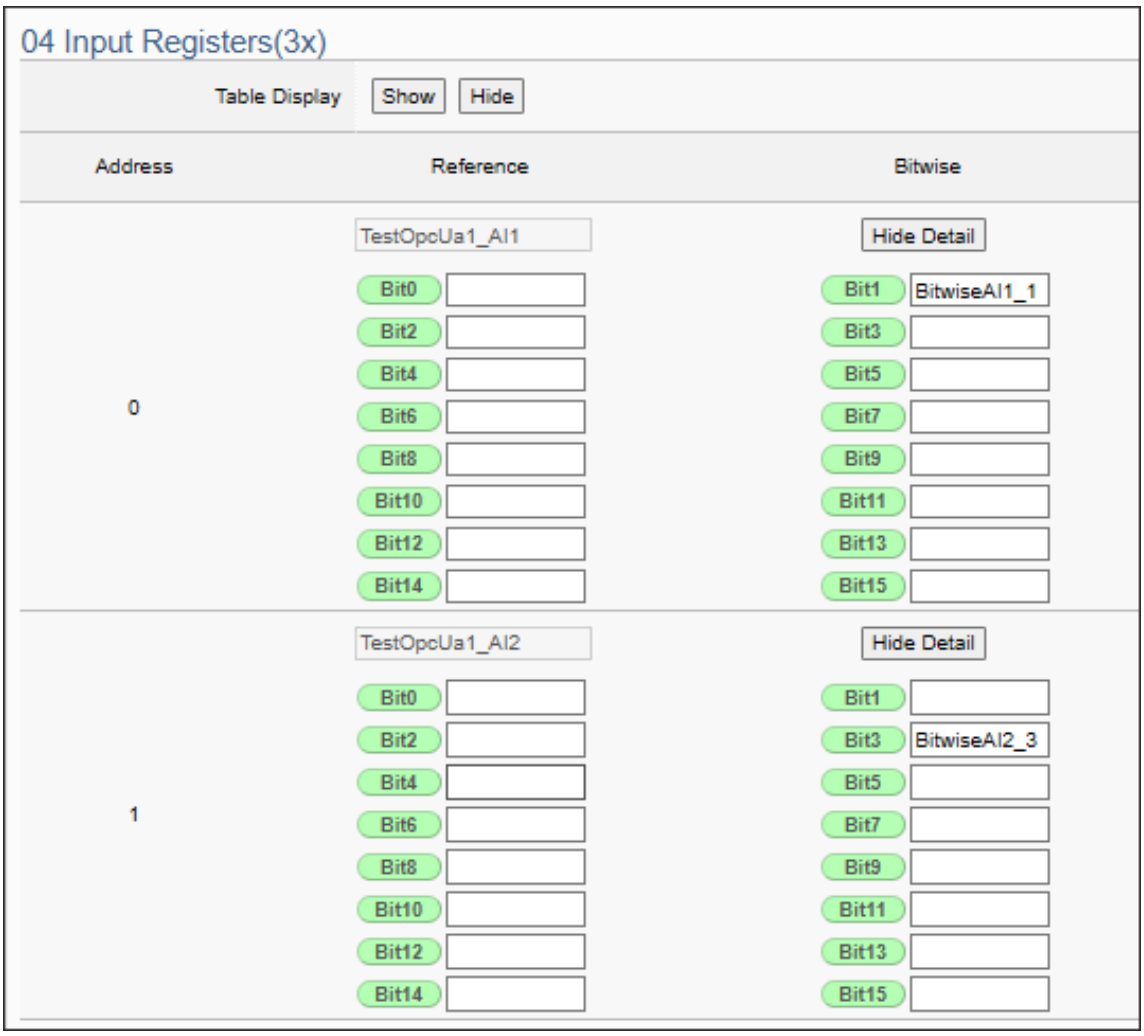
✧ Modbus Mapping Table > Bitwise Setting

➔ Holding Registers



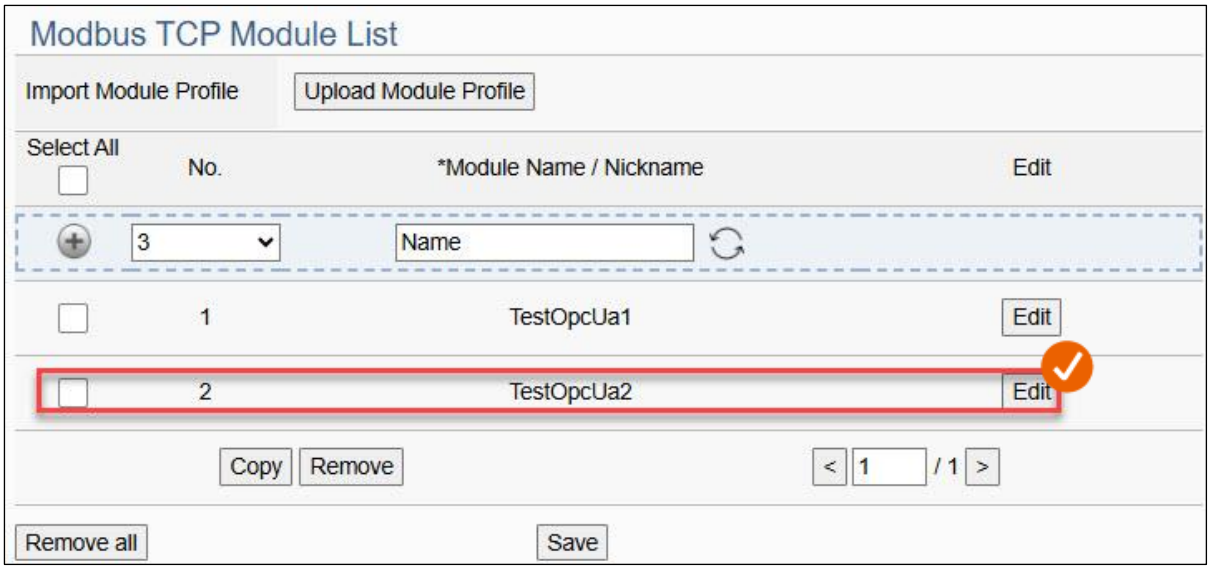
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➔ Input Registers

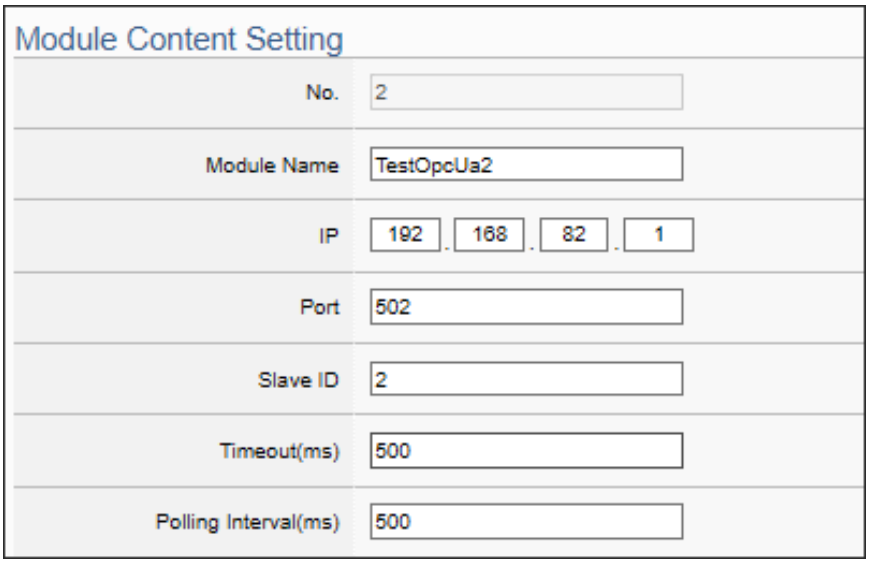


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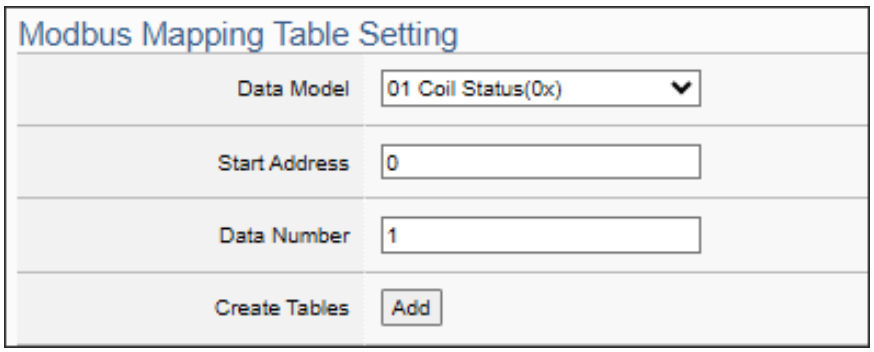
2. TestOpcUa2 module data :



✧ Modbus TCP Module Content Setting

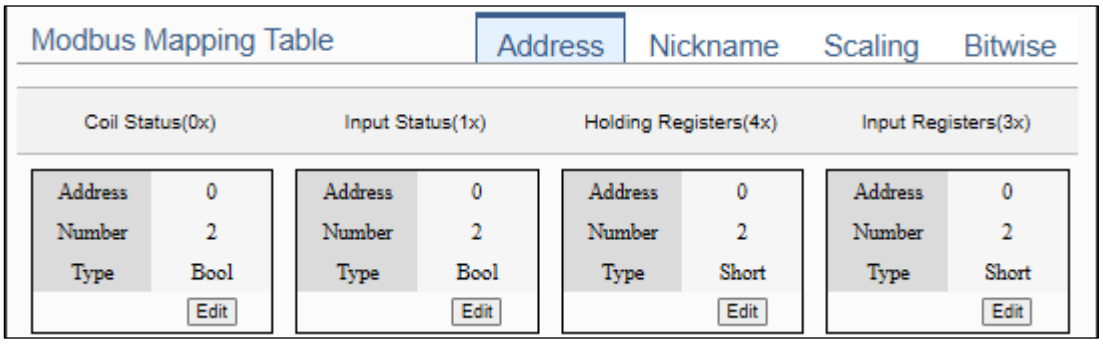


✧ Modbus Mapping Table Setting

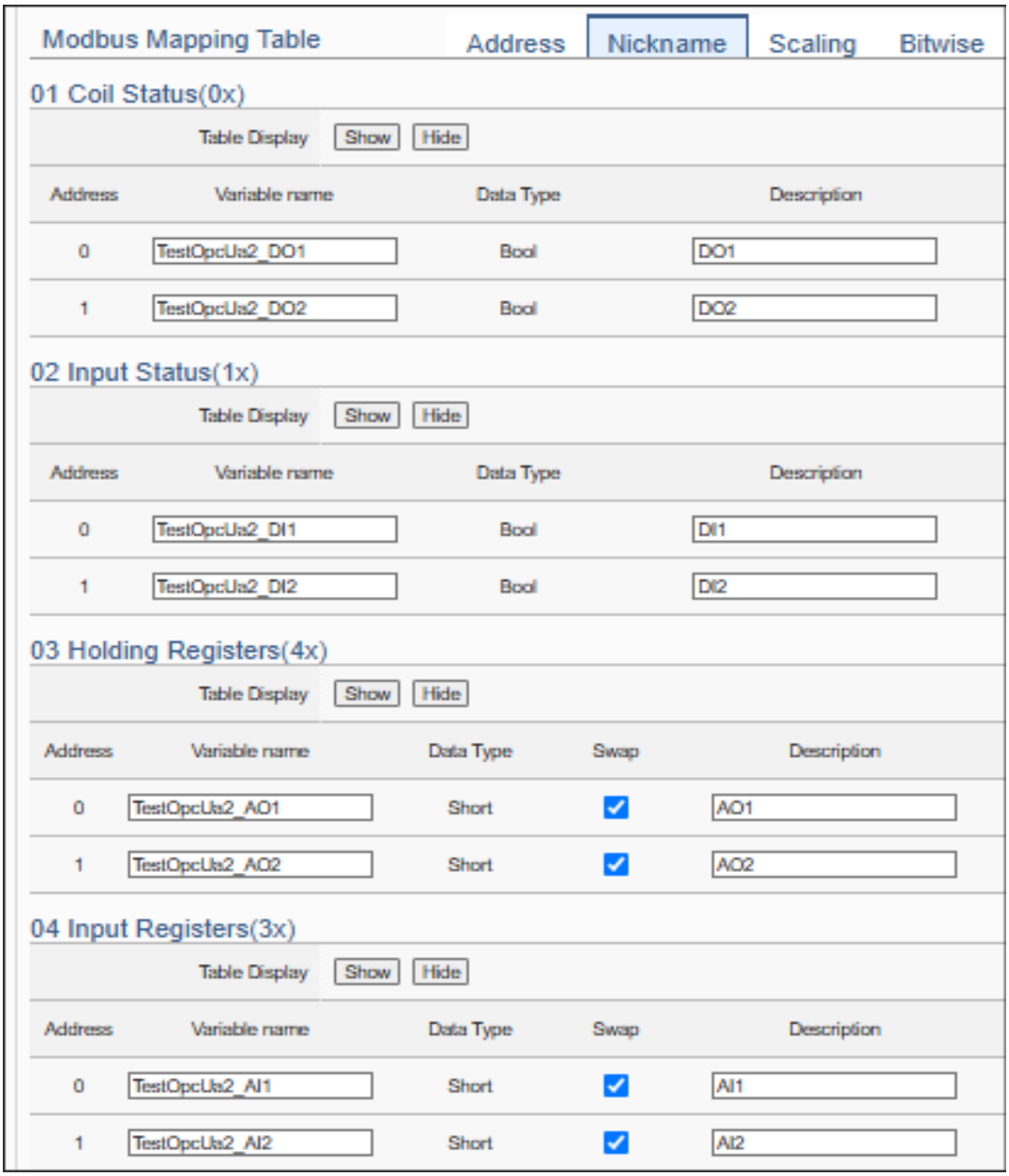


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✧ Modbus Mapping Table > Address Setting

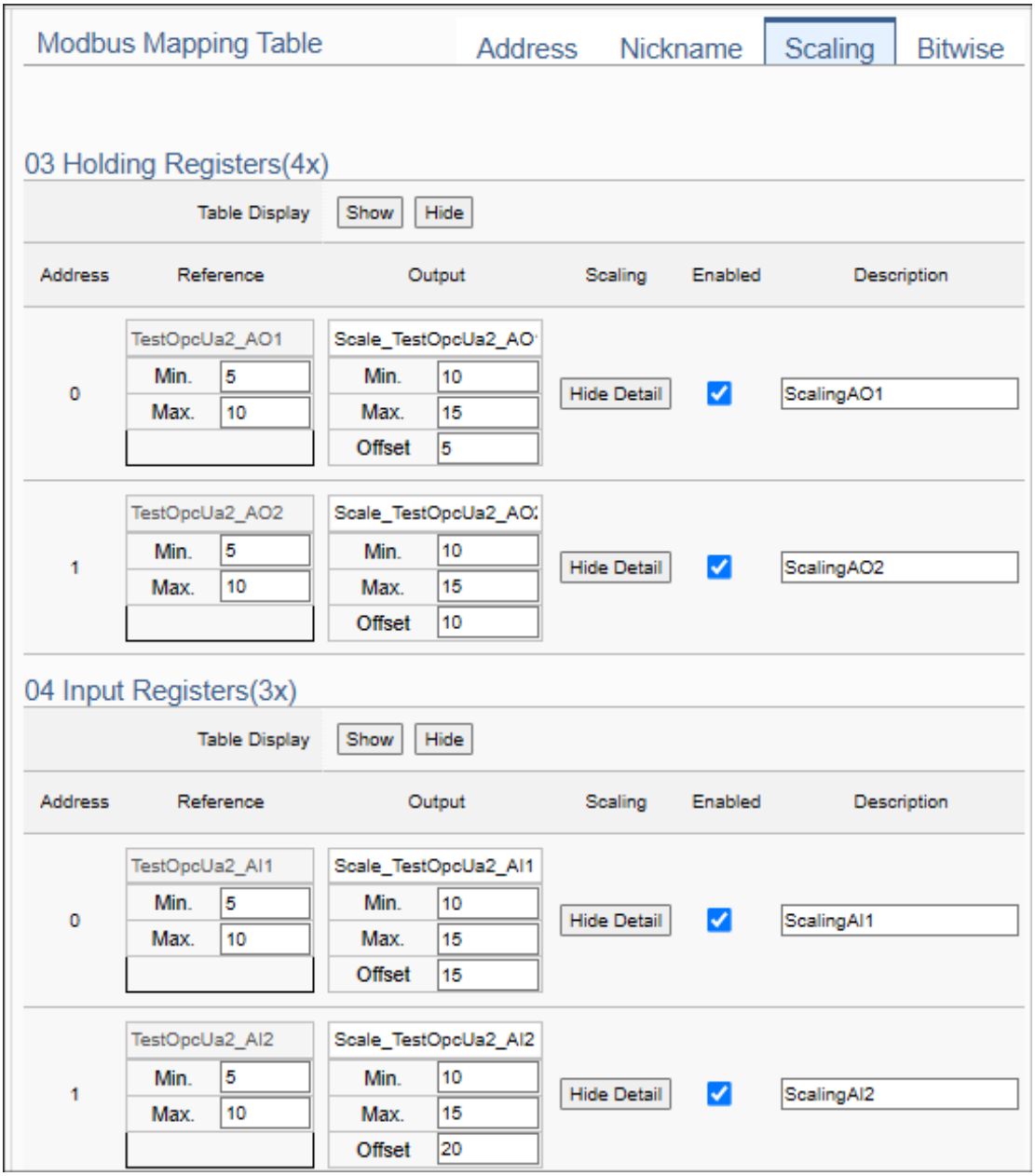


✧ Modbus Mapping Table > Nickname Setting



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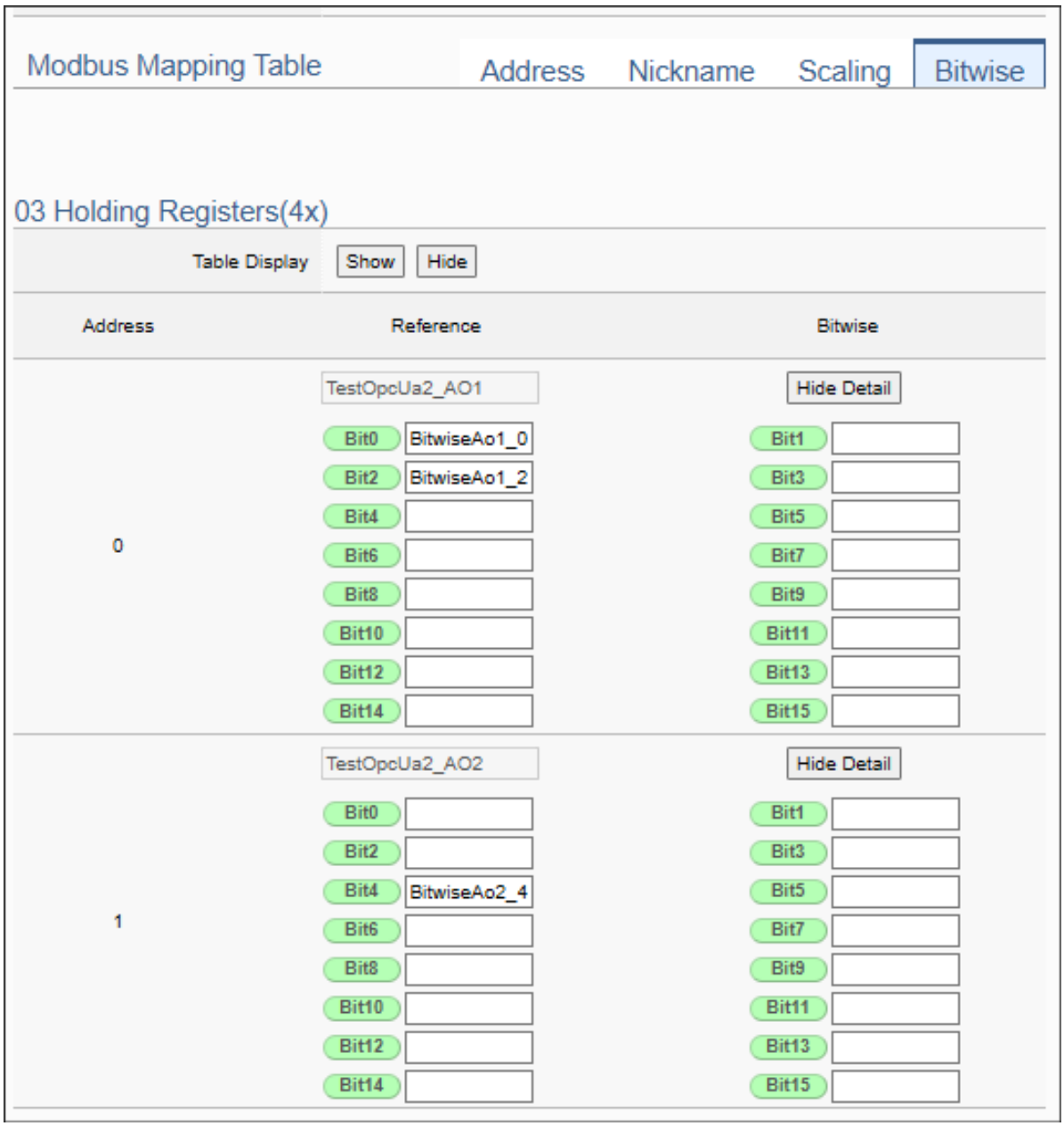
✧ Modbus Mapping Table > Scaling Setting



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✧ Modbus Mapping Table > Bitwise Setting

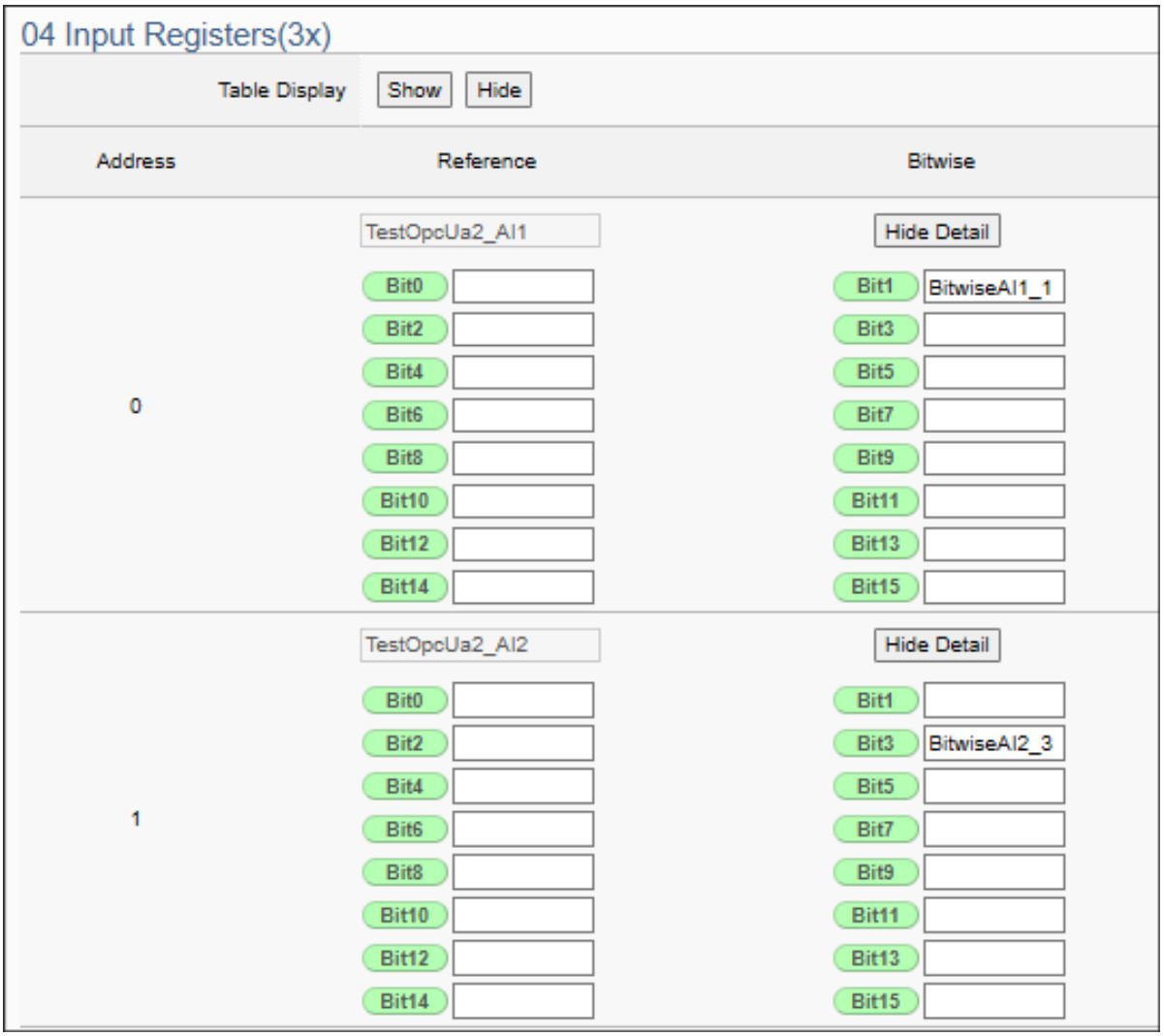
➔ Holding Registers



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➔ Input Registers



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