● Correspondence Between [Modbus To OPC UA] and [Modbus To MQTT] Template Files of UA Web UI

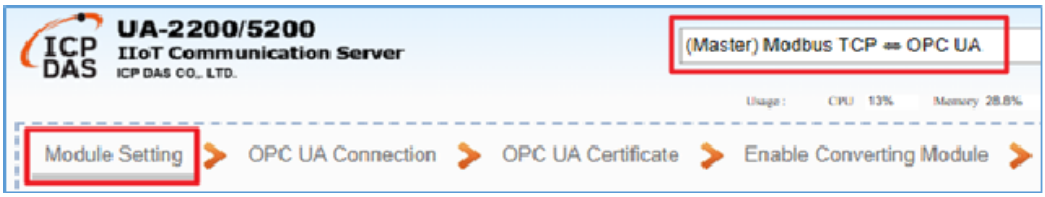
1. Modbus To OPC UA Template File

❖ **To edit the Excel file, please use the format of numbers and text, do not use formulas, otherwise it will display abnormal or incorrect.**

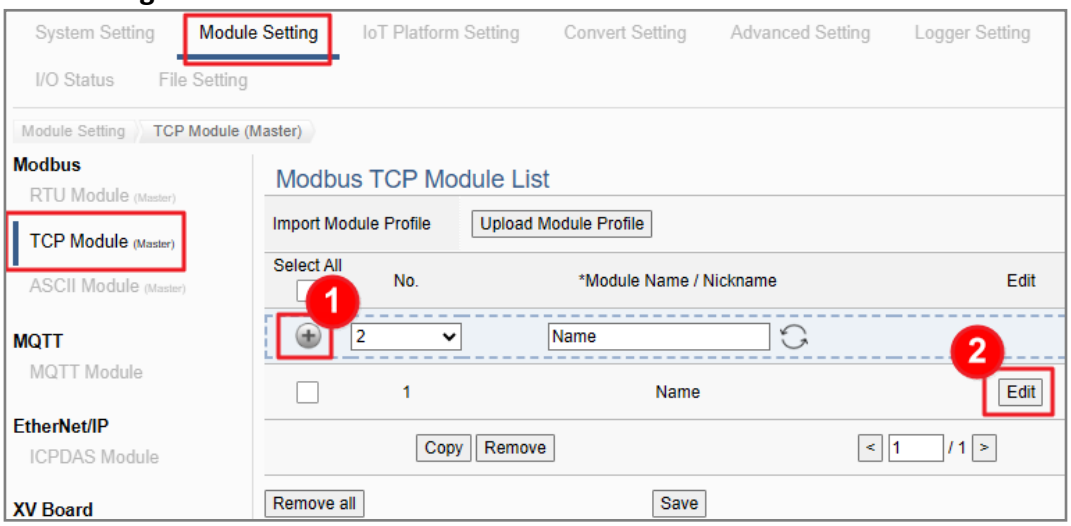
(1) Modbus TCP:

The Modbus TCP data in the Excel template file correspond to the **[Module Setting > TCP Module]** under the **[(Master) Modbus TCP ⇔ OPC UA]** Function Wizard on the UA Web UI, as shown below:

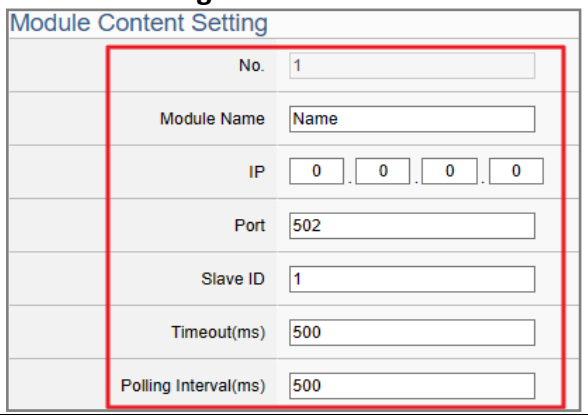
✧ **Function Wizard**



✧ **Module Setting > TCP Module**

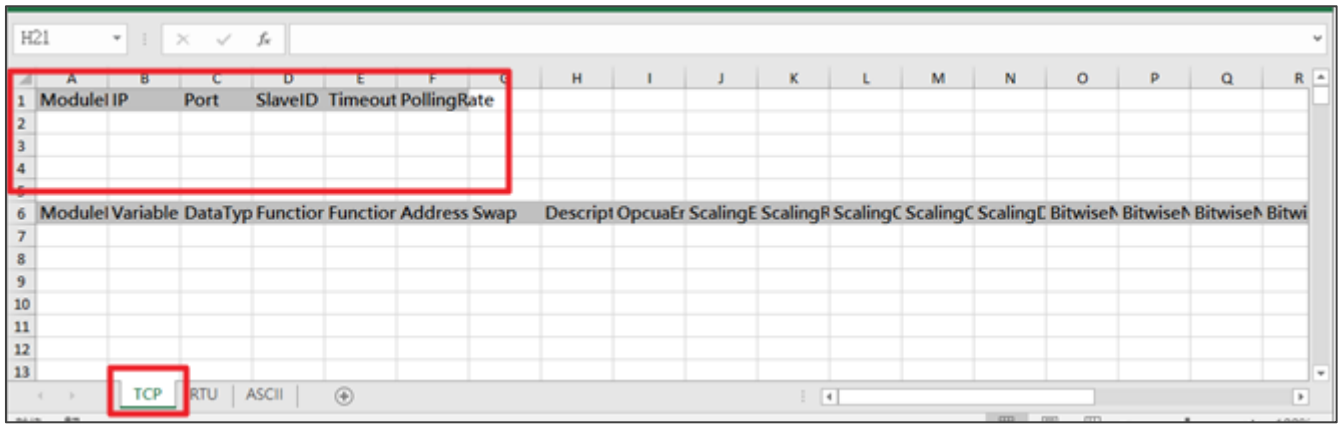


a. Modbus TCP Module Content Setting

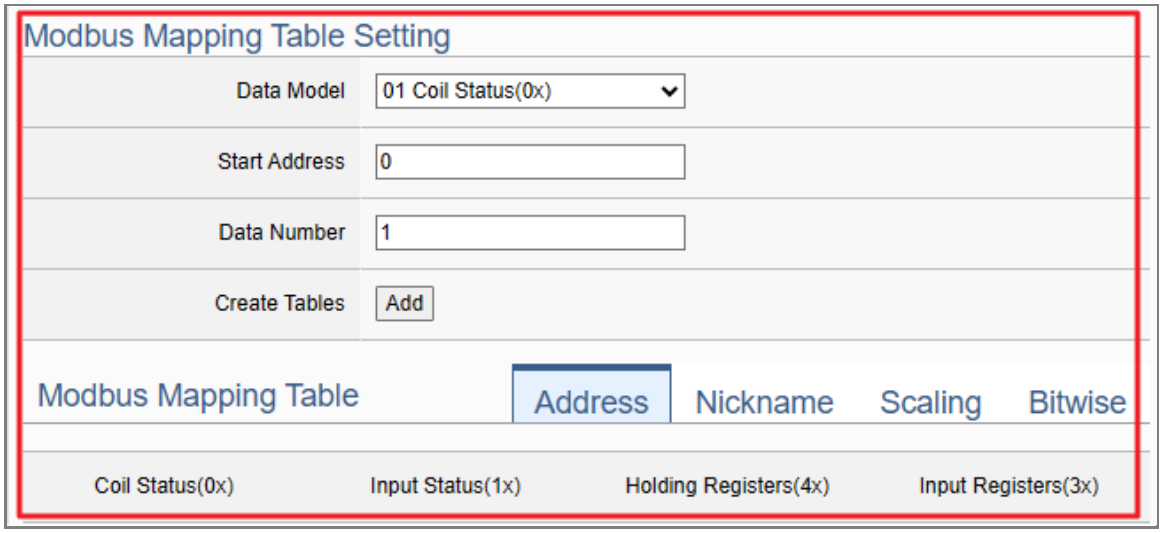


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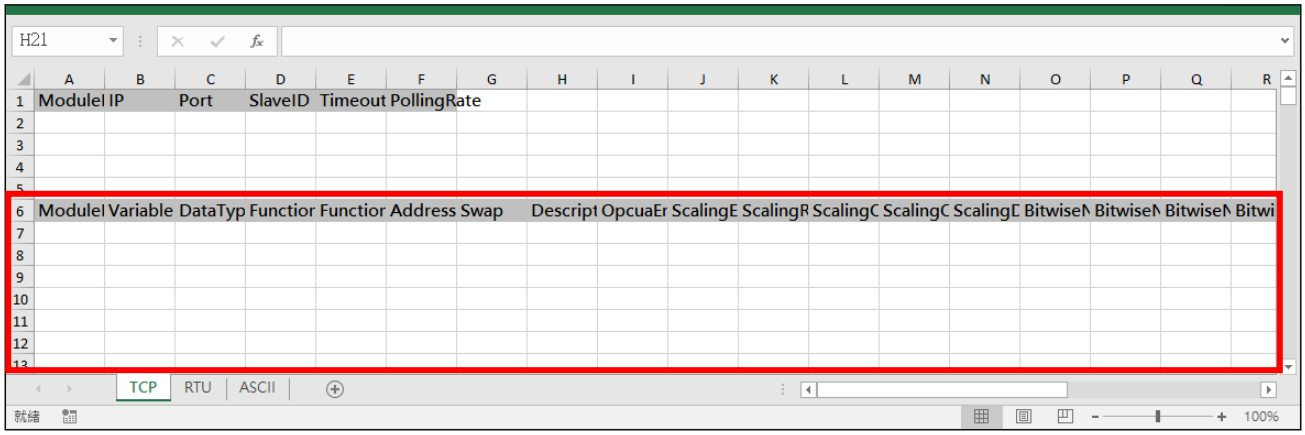
➔ The [Modbus TCP Module Content Setting] corresponds to the TCP data in the Excel template file.



b. Modbus Mapping Table Setting



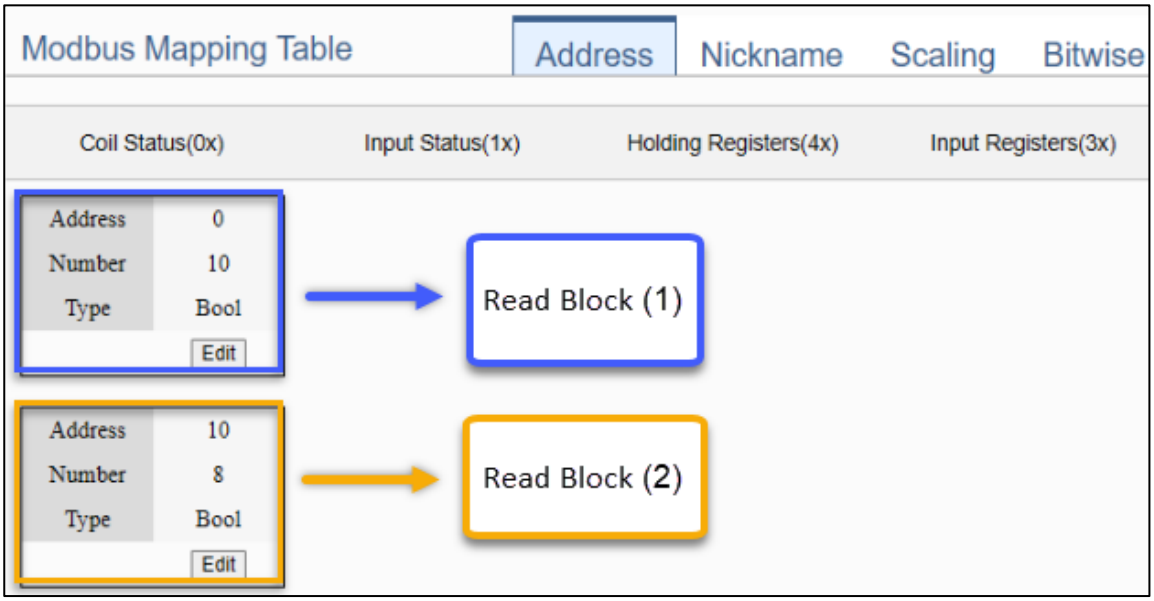
➔ The [Modbus Mapping Table Setting] corresponds to the TCP data in the Excel template file.

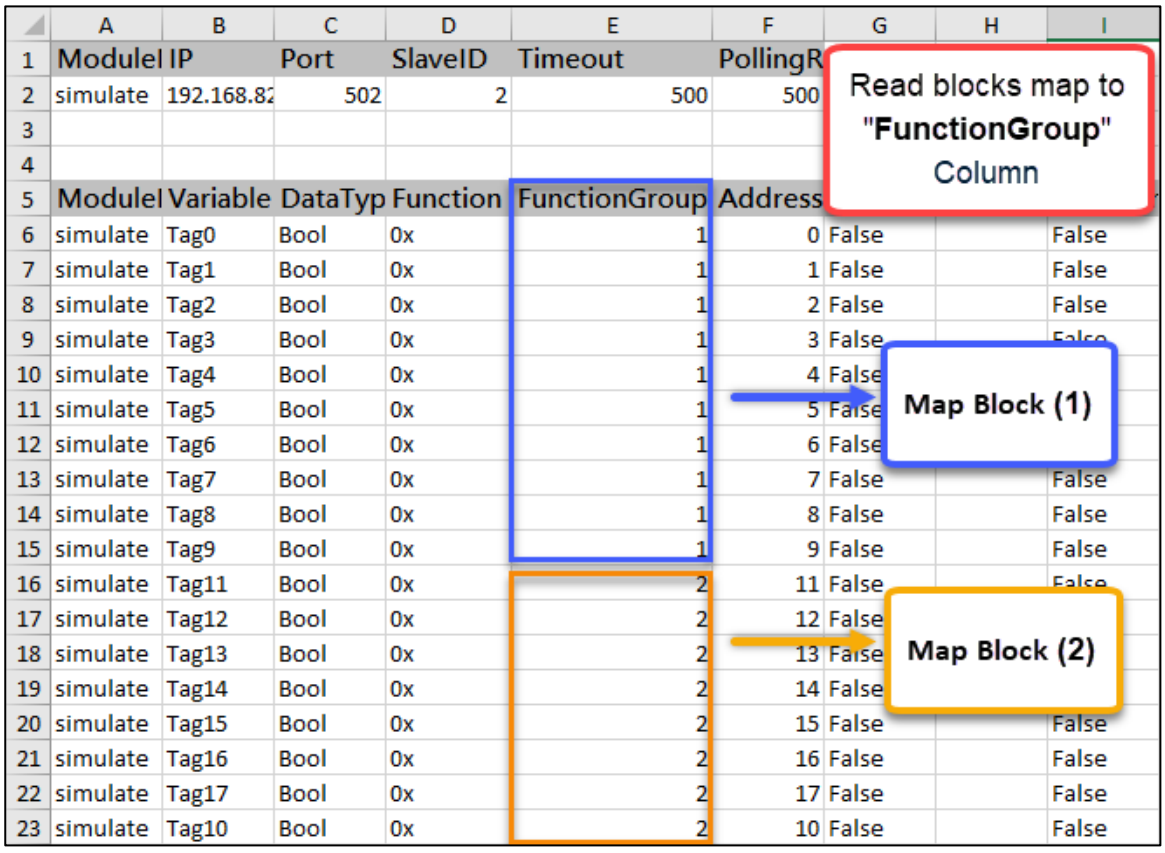


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➔ **FunctionGroup Description (Using Template File as Example)**

The "**Read Block**" in UA web UI maps to the "**FunctionGroup**" column in the Excel template file.





	A	B	C	D	E	F	G	H	I
1	ModuleI	IP	Port	SlaveID	Timeout	PollingR			
2	simulate	192.168.82	502	2	500	500			
3									
4									
5	ModuleI	Variable	DataTyp	Function	FunctionGroup	Address			
6	simulate	Tag0	Bool	0x	1	0	False		False
7	simulate	Tag1	Bool	0x	1	1	False		False
8	simulate	Tag2	Bool	0x	1	2	False		False
9	simulate	Tag3	Bool	0x	1	3	False		
10	simulate	Tag4	Bool	0x	1	4	False		
11	simulate	Tag5	Bool	0x	1	5	False		
12	simulate	Tag6	Bool	0x	1	6	False		
13	simulate	Tag7	Bool	0x	1	7	False		False
14	simulate	Tag8	Bool	0x	1	8	False		False
15	simulate	Tag9	Bool	0x	1	9	False		False
16	simulate	Tag11	Bool	0x	2	11	False		
17	simulate	Tag12	Bool	0x	2	12	False		
18	simulate	Tag13	Bool	0x	2	13	False		
19	simulate	Tag14	Bool	0x	2	14	False		
20	simulate	Tag15	Bool	0x	2	15	False		False
21	simulate	Tag16	Bool	0x	2	16	False		False
22	simulate	Tag17	Bool	0x	2	17	False		False
23	simulate	Tag10	Bool	0x	2	10	False		False

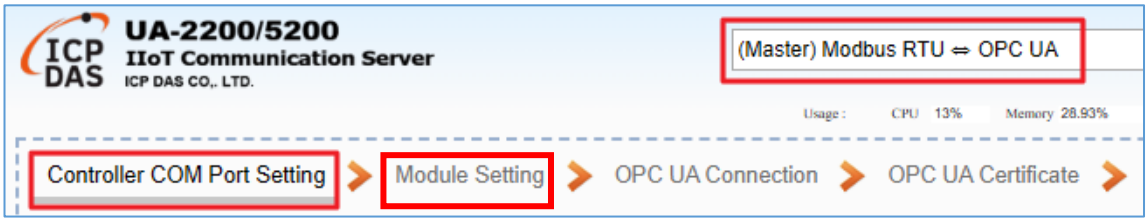
❖ A "**Read Block**" is a set of binding **starting addresses** and **register numbers**, designed to optimize communication efficiency and data management.

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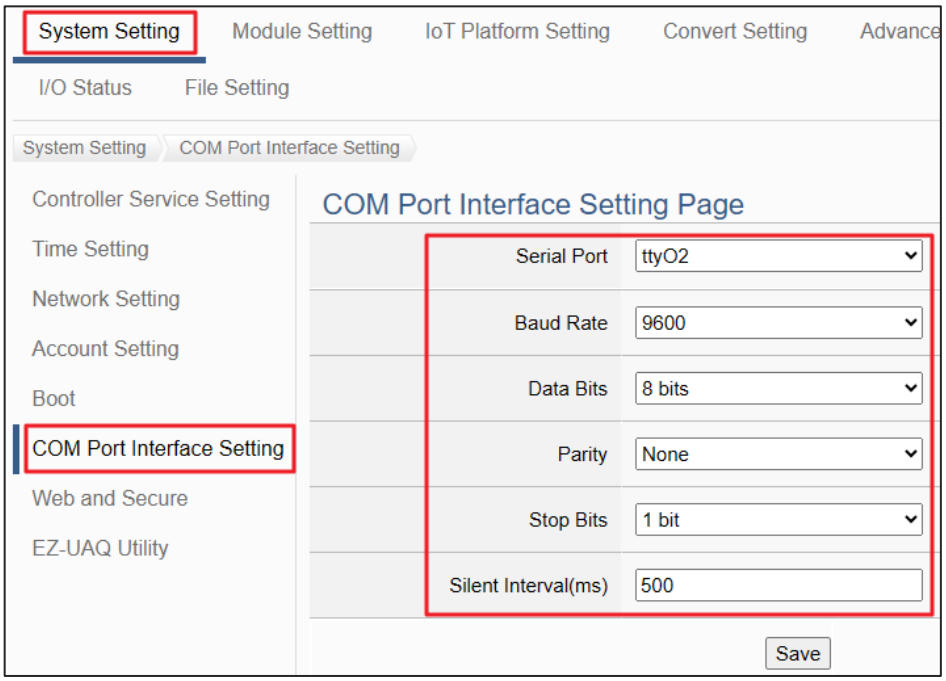
(2) Modbus RTU:

The Modbus RTU data in the Excel template file correspond to the **[System Setting > COM Port Interface Setting]** and **[Module Setting > RTU Module]** under the **[(Master) Modbus RTU ⇔ OPC UA]** Function Wizard on the UA Web UI, as shown below:

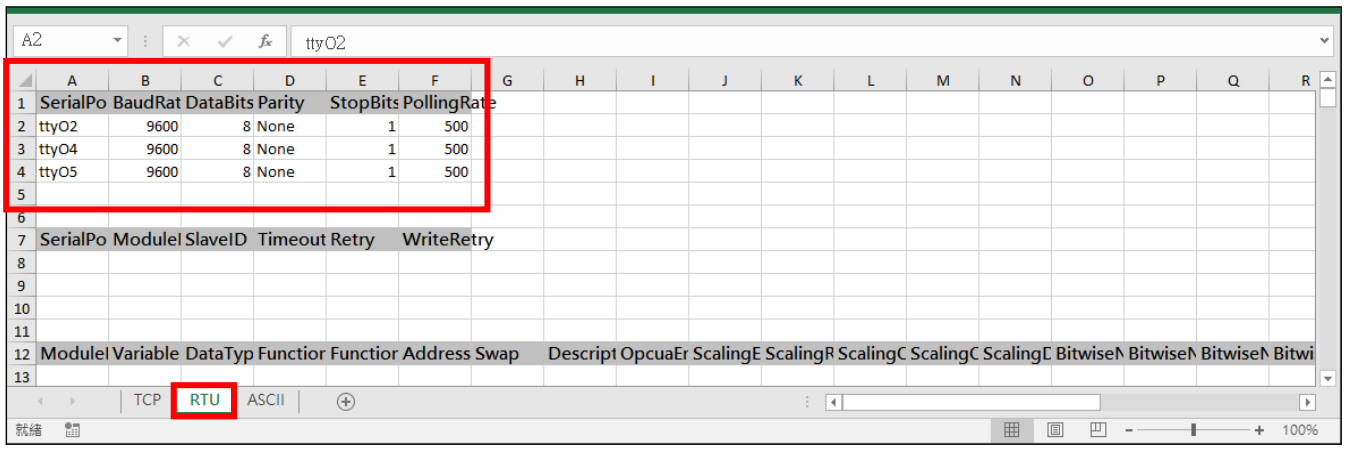
✧ **Function Wizard**



✧ **System Setting > COM Port Interface Setting**

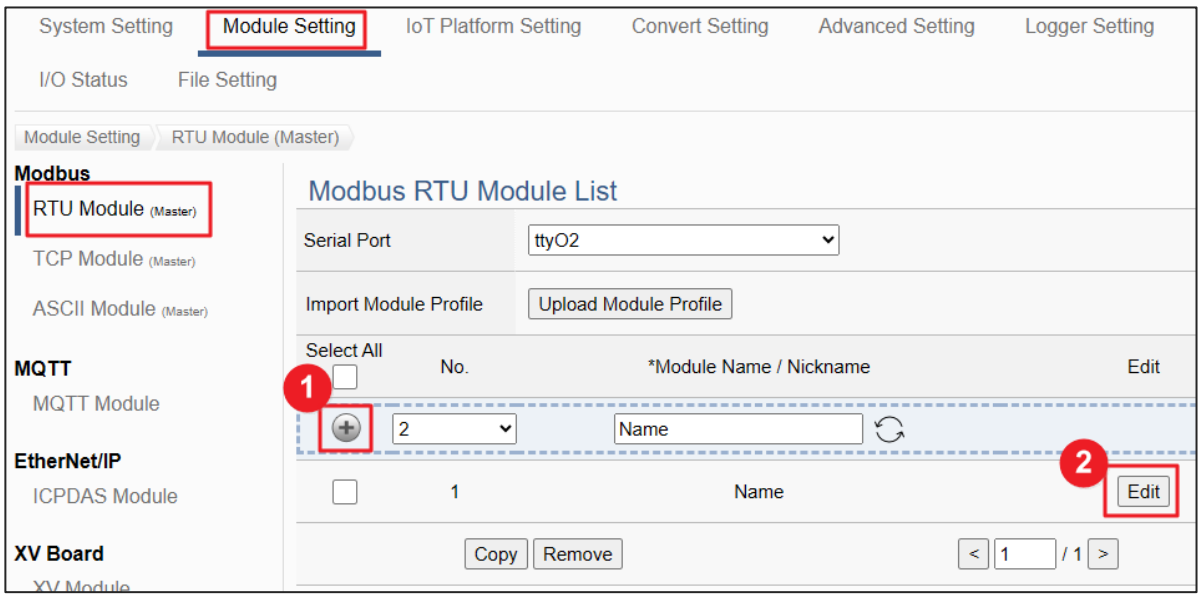


➔ The [COM Port Interface Setting] corresponds to the RTU data in the Excel template file.

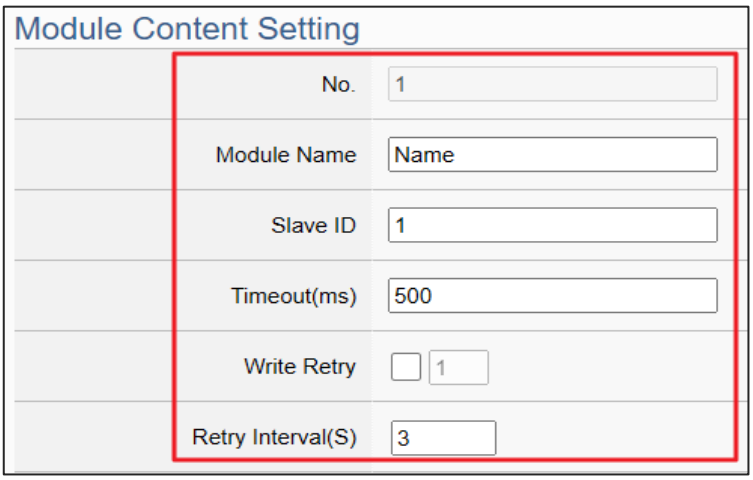


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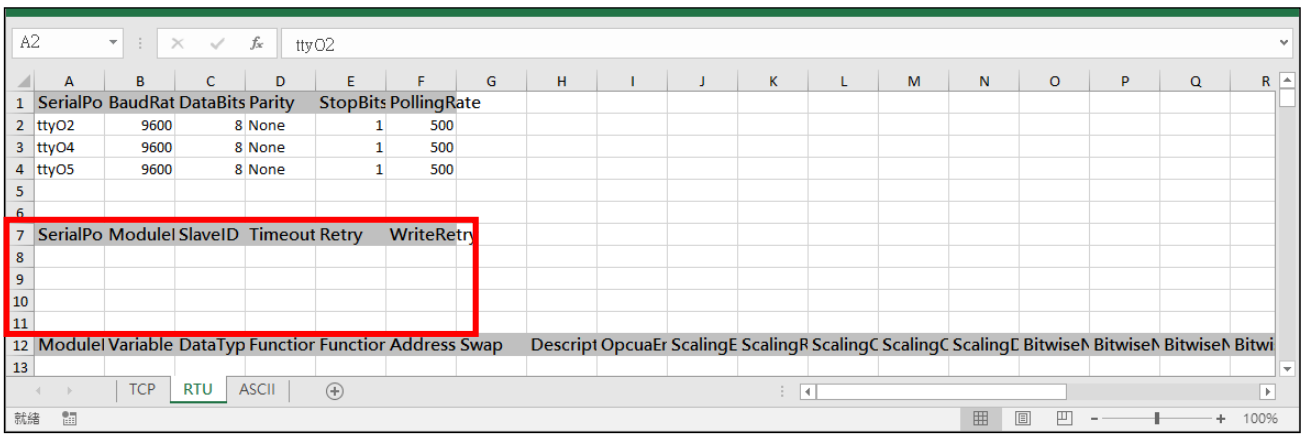
✧ Module Setting > RTU Module



a. Modbus RTU Module Content Setting

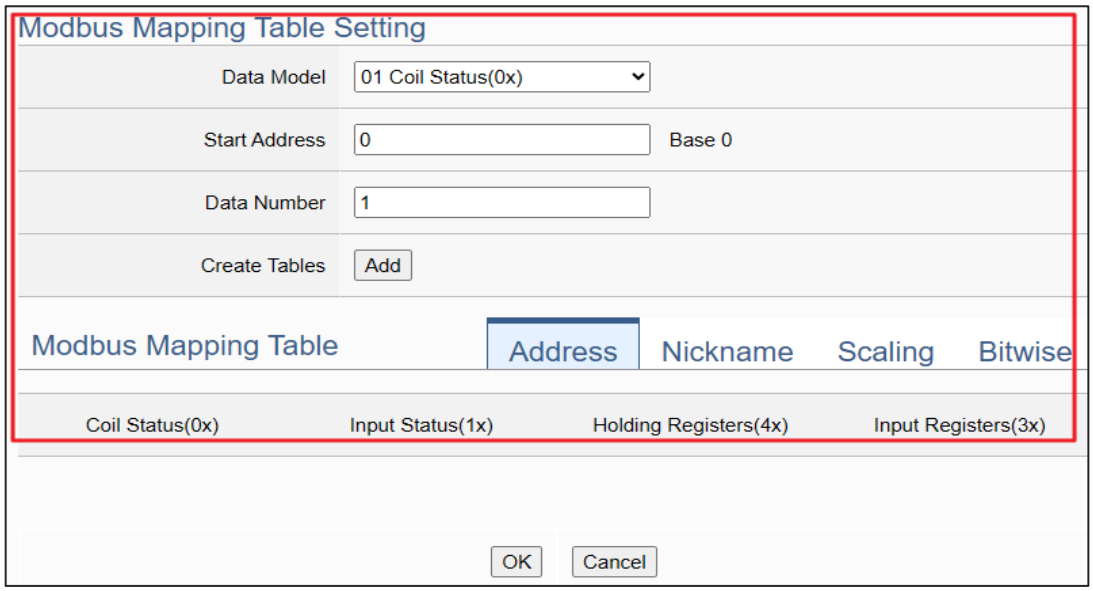


➔ The [Modbus RTU Module Content Setting] corresponds to the RTU data in the Excel template file.

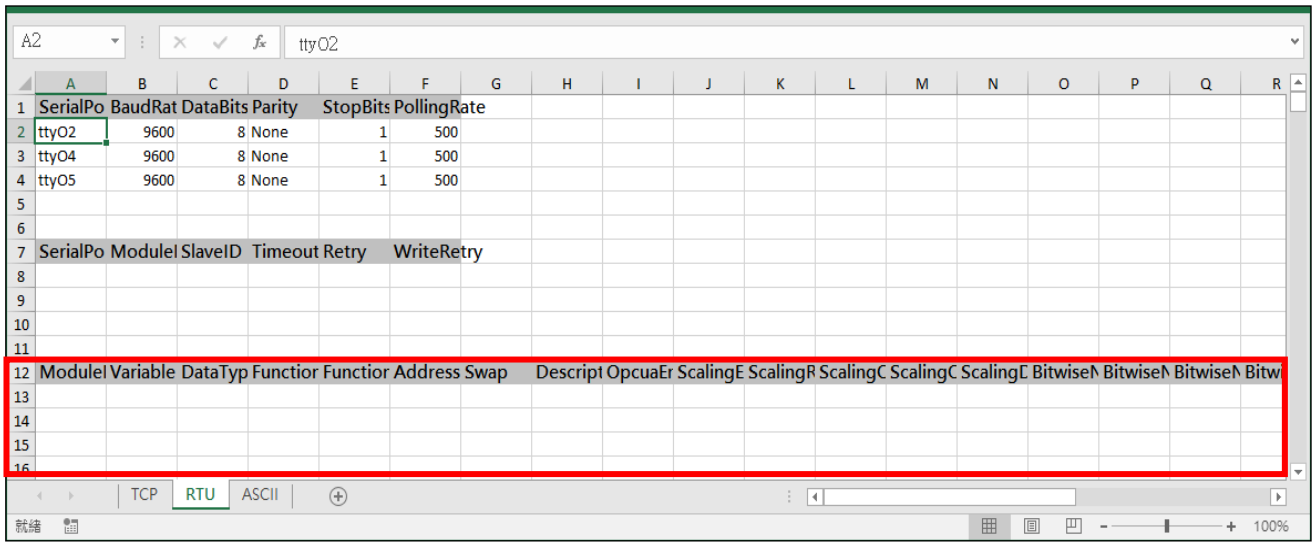


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b. Modbus Mapping Table Setting



➔ The [Modbus Mapping Table Setting] corresponds to the RTU data in the Excel template file.

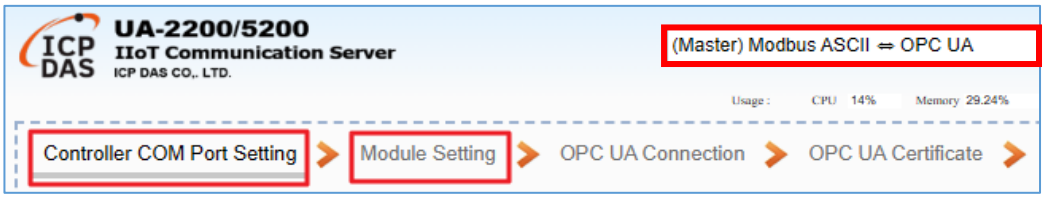


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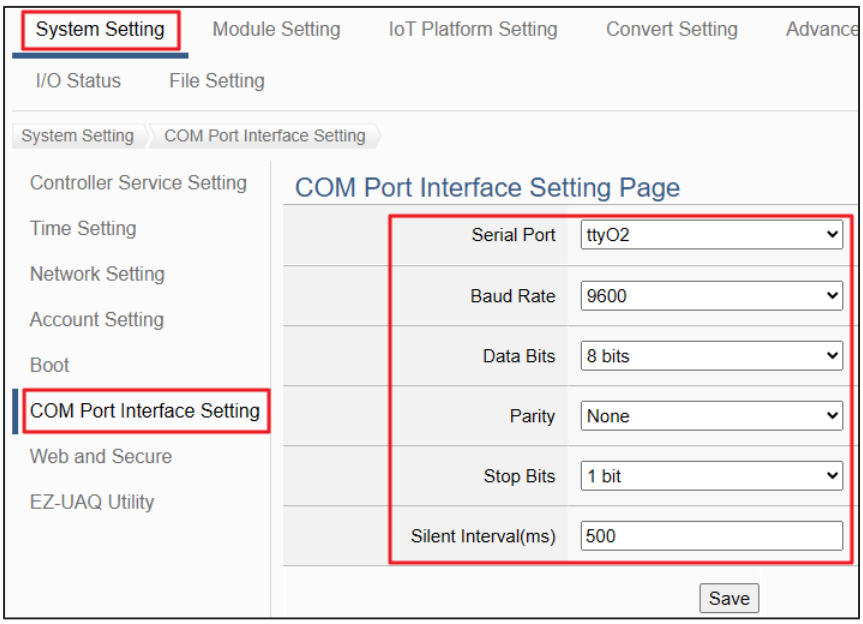
(3) Modbus ASCII:

The Modbus ASCII data in the Excel template file correspond to the **[System Setting > COM Port Interface Setting]** and **[Module Setting > ASCII Module]** under the **[(Master) Modbus ASCII ⇔ OPC UA]** Function Wizard on the UA Web UI, as shown below:

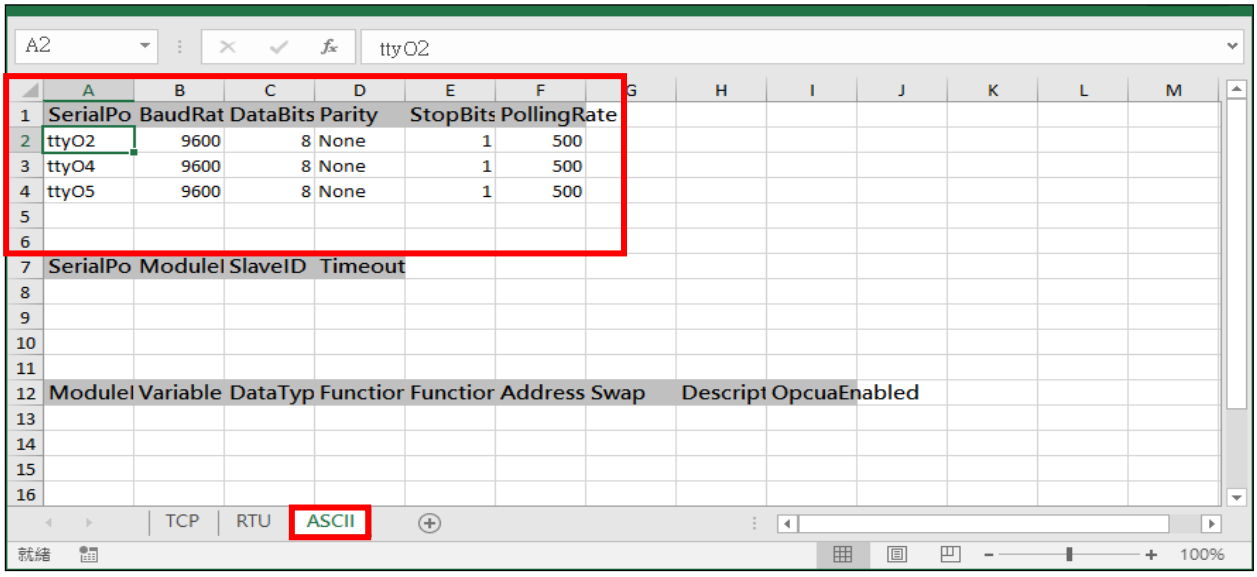
✧ **Function Wizard**



✧ **System Setting > COM Port Interface Setting**

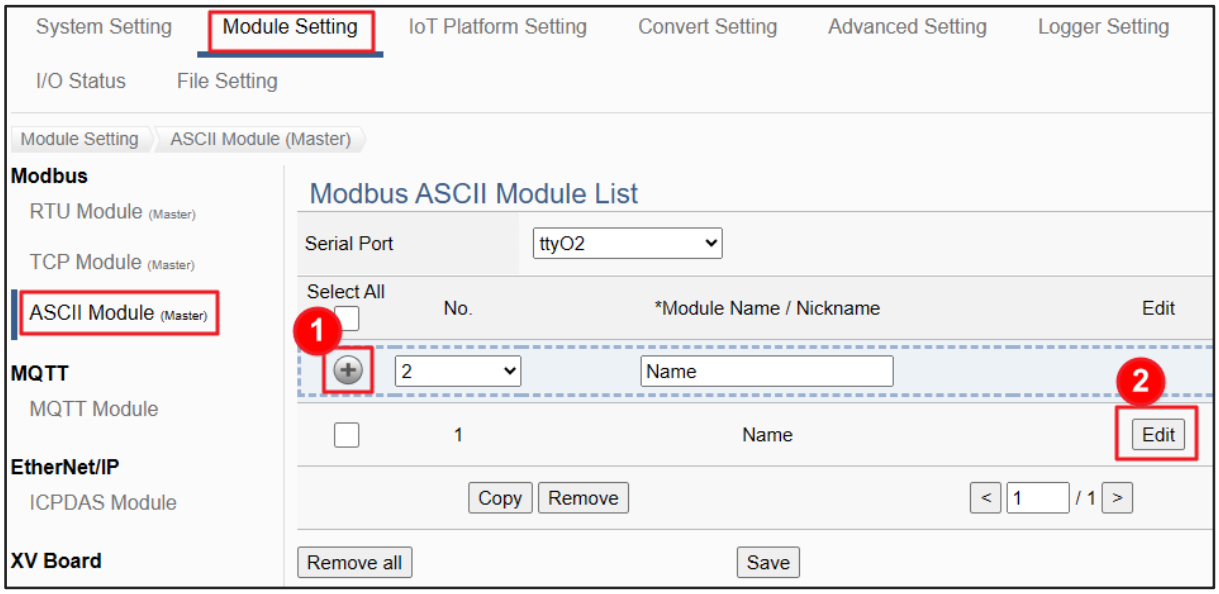


➔ The [COM Port Interface Setting] corresponds to the ASCII data in the Excel template file.

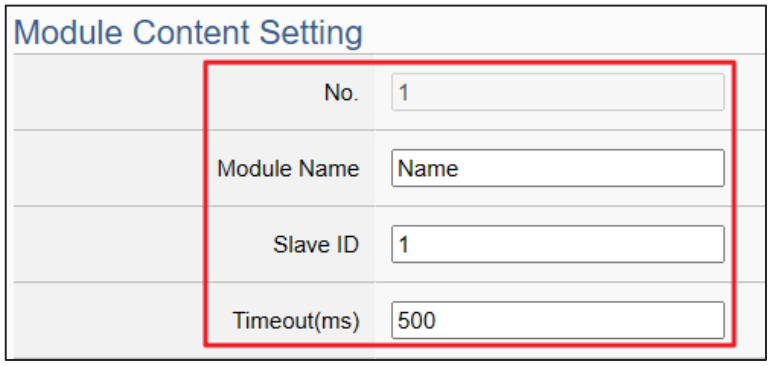


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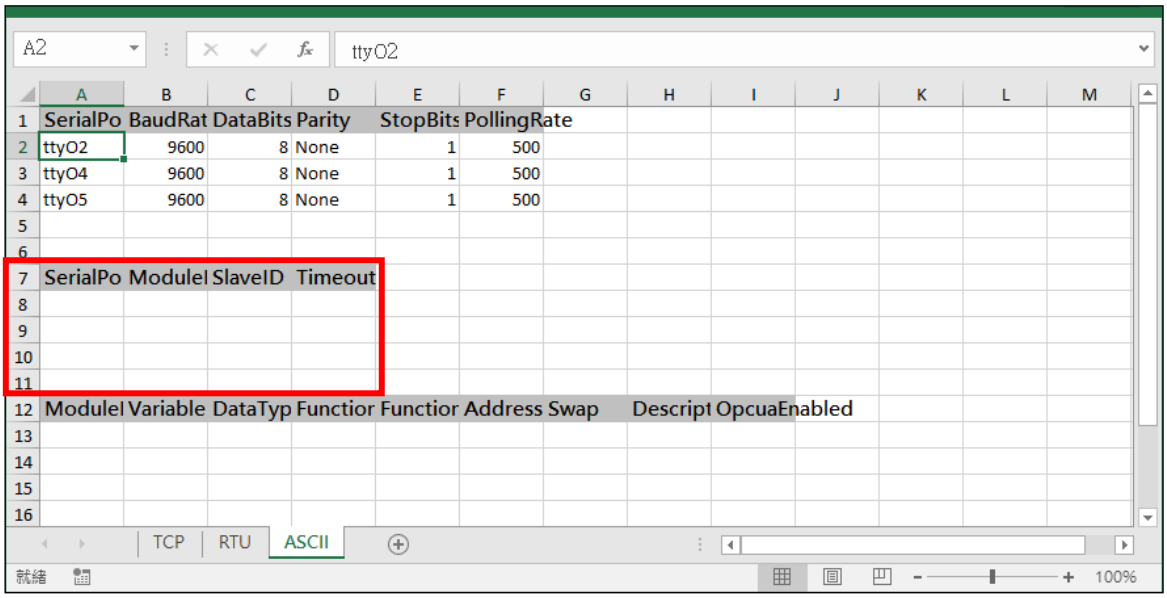
✧ Module Setting > ASCII Module



a. Modbus ASCII Module Content Setting

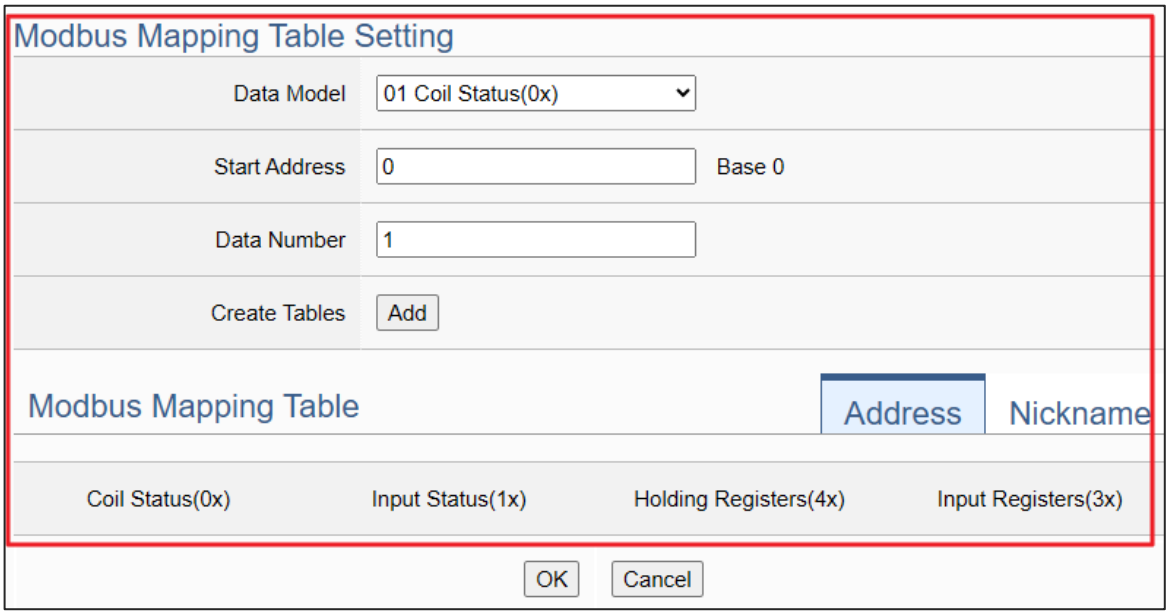


➔ The [Modbus ASCII Module Content Setting] corresponds to the ASCII data in the Excel template file.

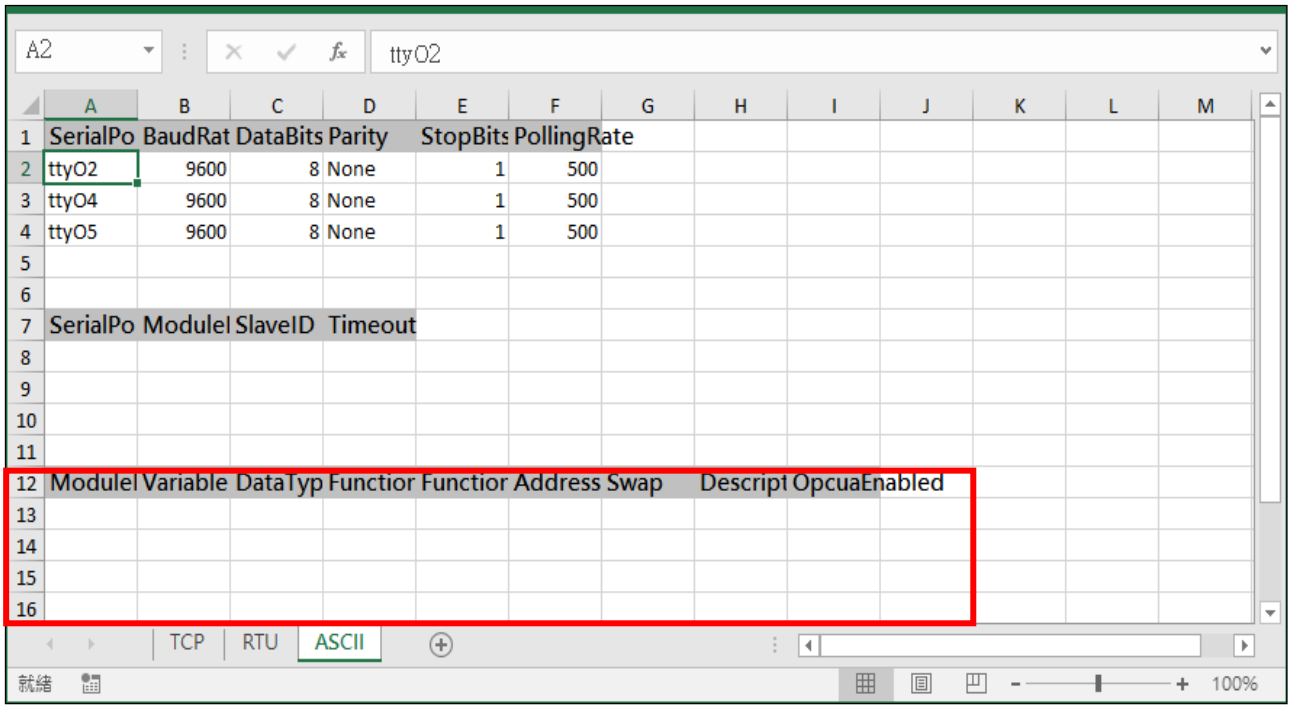


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b. Modbus Mapping Table Setting



➔ The [Modbus Mapping Table Setting] corresponds to the ASCII data in the Excel template file.



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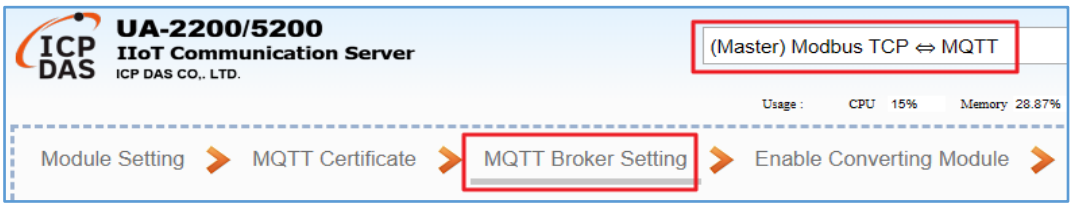
2. Modbus To MQTT Template File

❖ **To edit the Excel file, please use the format of numbers and text, do not use formulas, otherwise it will display abnormal or incorrect.**

(1) MQTT Broker:

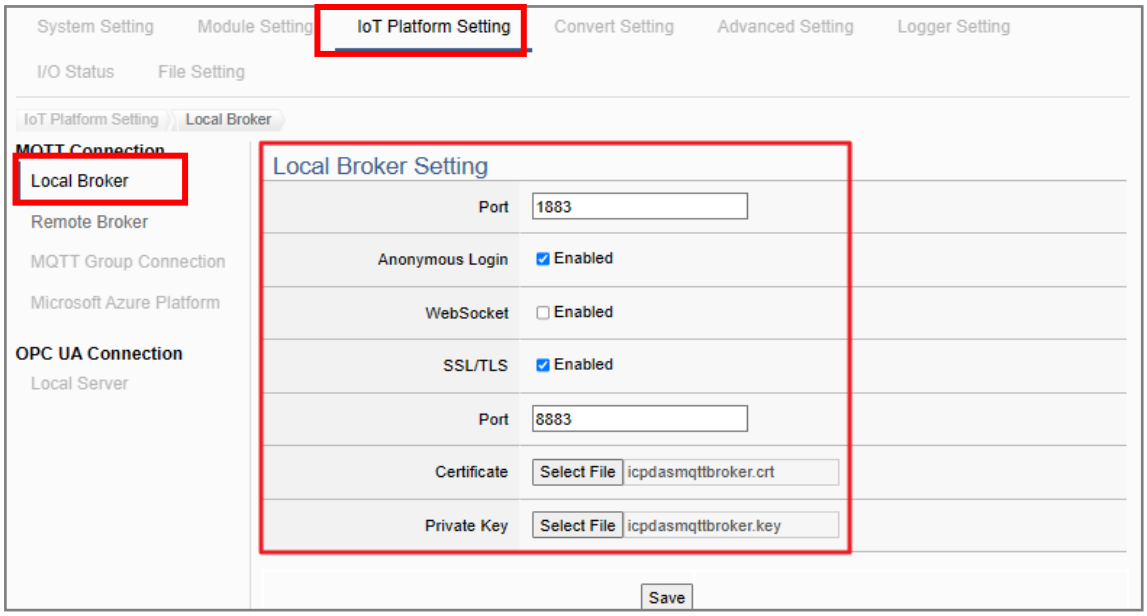
The Broker data in the Excel template file correspond to the **[IoT Platform Setting > Local Broker Setting]** and **[Remote Broker Setting]** under the **[(Master) Modbus TCP ⇔ MQTT]** Function Wizard on the UA Web UI, as shown below:

✧ **Function Wizard**

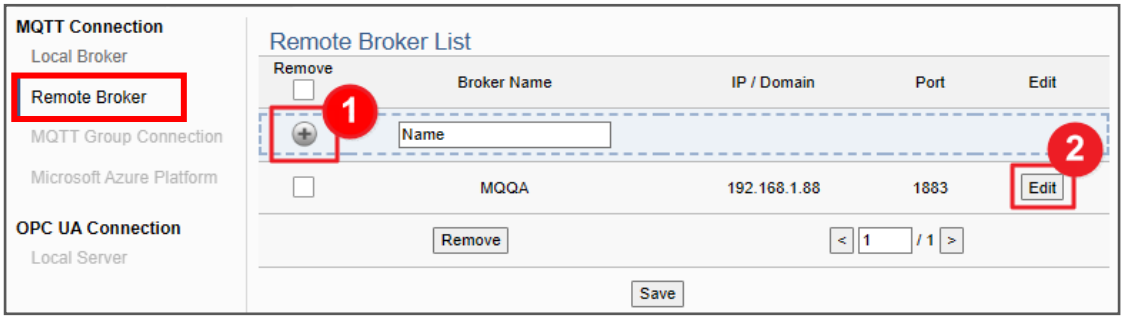


✧ **IoT Platform Setting**

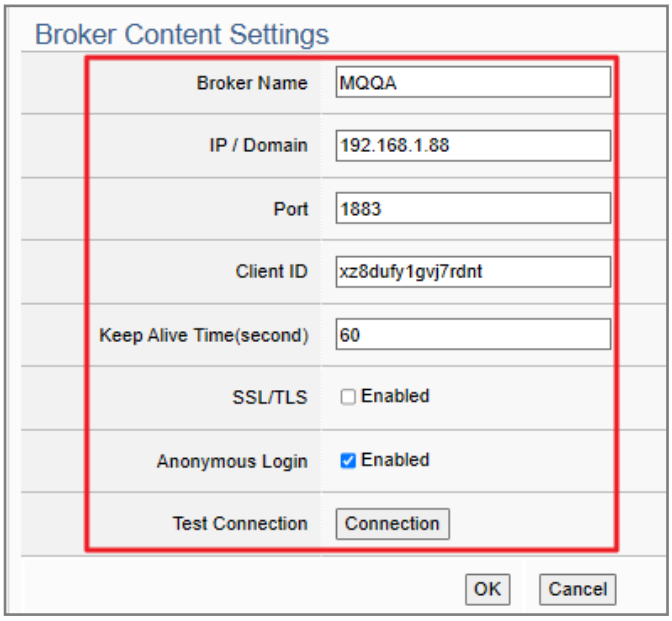
a. Local Broker Setting



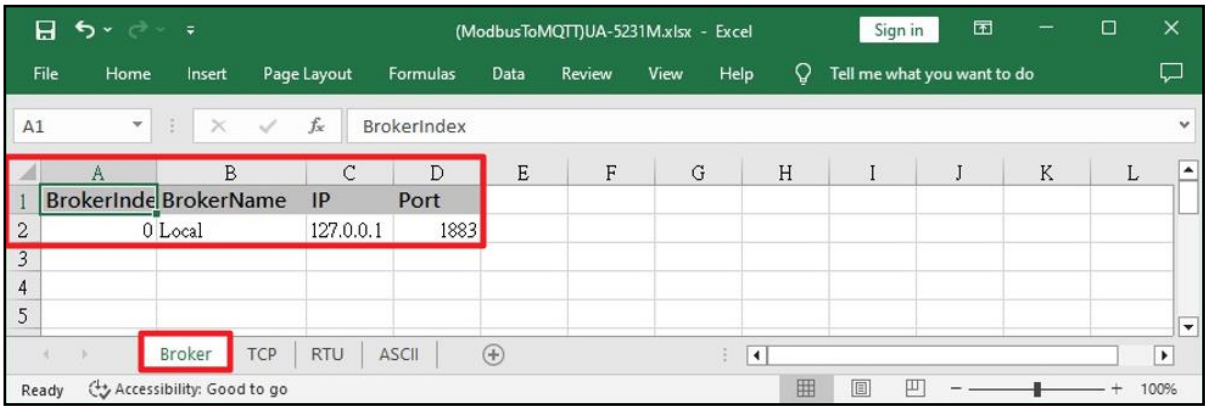
b. Remote Broker Setting



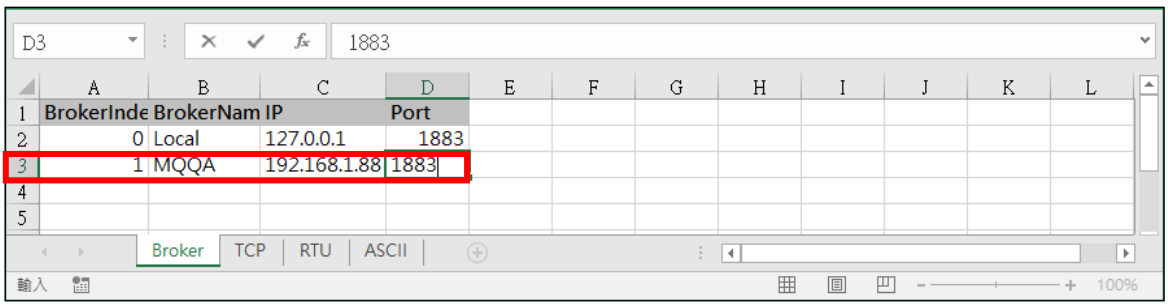
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➔ The [Local Broker] settings and [Remote Broker] settings correspond to the Broker data in the Excel template file.



There will be default Local Broker data. If you want to add remote Broker data, you can add it directly to the cell under Local as shown below.

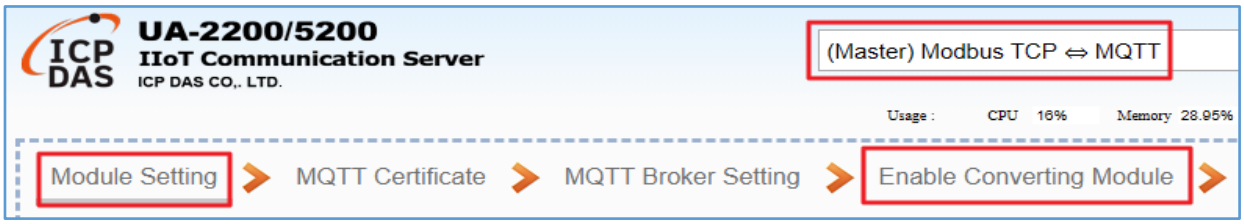


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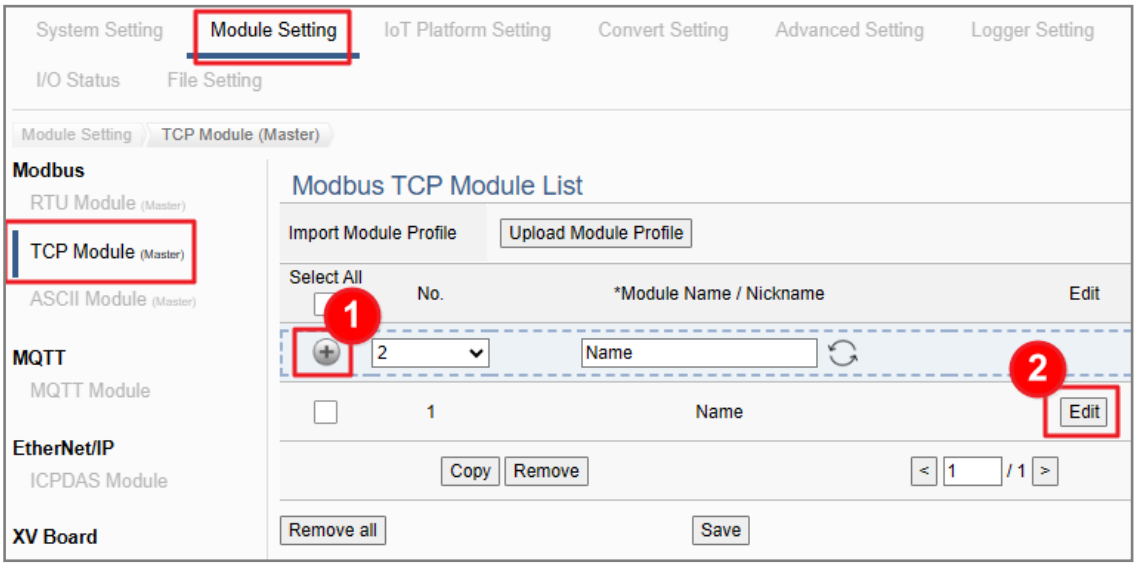
(2) Modbus TCP:

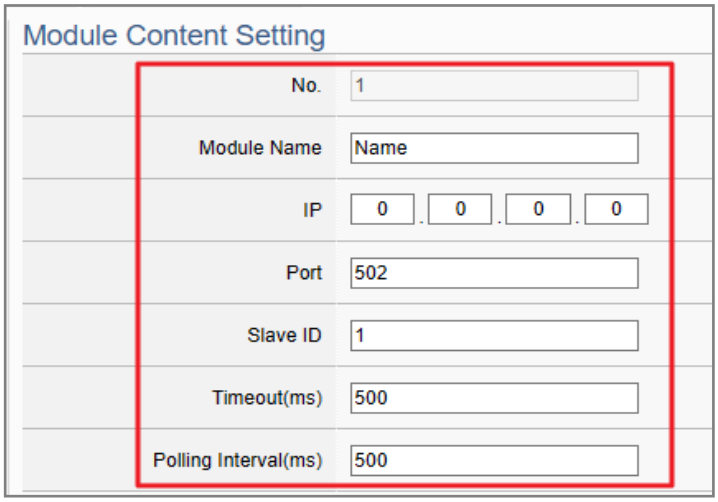
The TCP data in the Excel template file correspond to the **[Module Setting > TCP Module]** and **[Convert Setting > MQTT - Modbus TCP]** under the **[(Master) Modbus TCP ⇔ MQTT]** Function Wizard on the UA Web UI, as shown below:

✧ **Function Wizard**



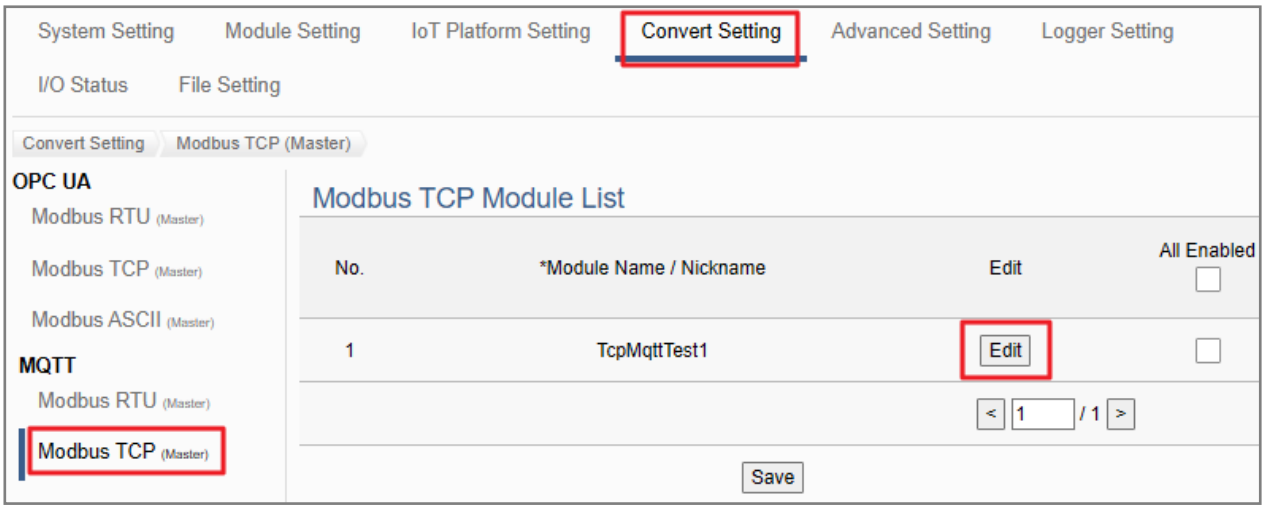
✧ **Module Setting > TCP Module : Modbus TCP Module Content Setting**

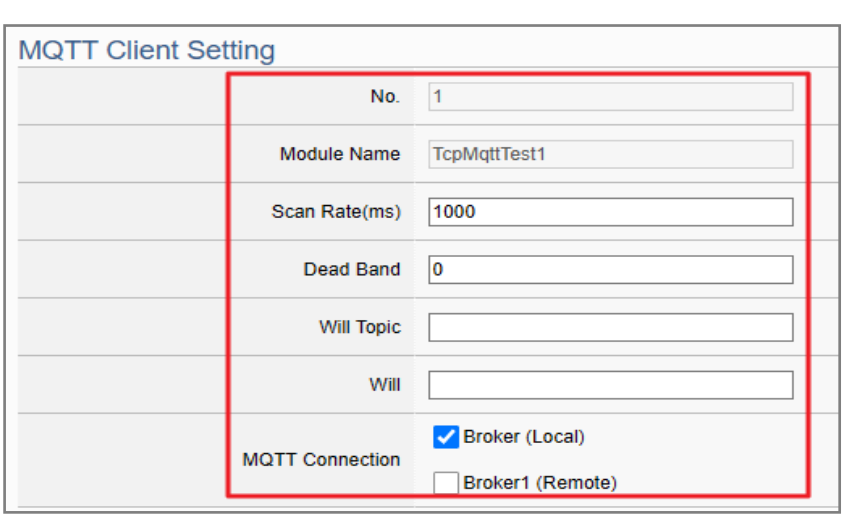




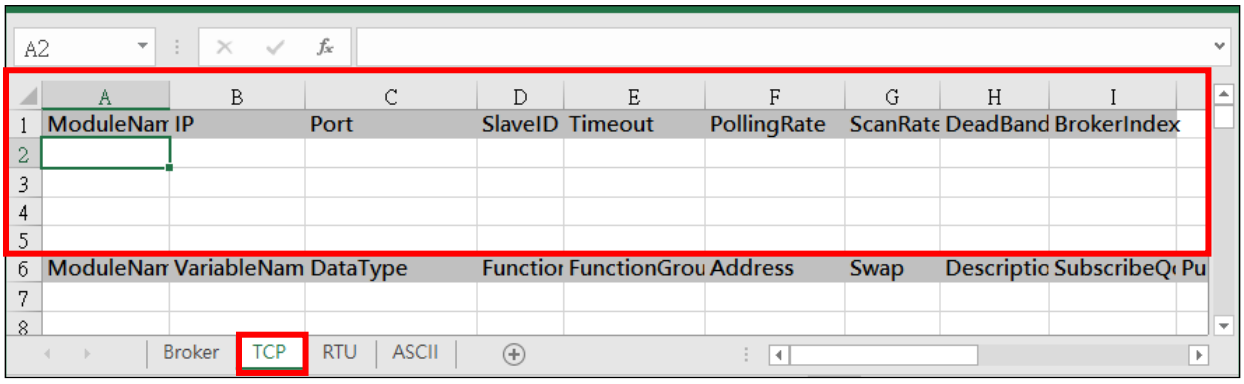
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✧ **Convert Setting > MQTT – Modbus TCP : MQTT Client Setting**



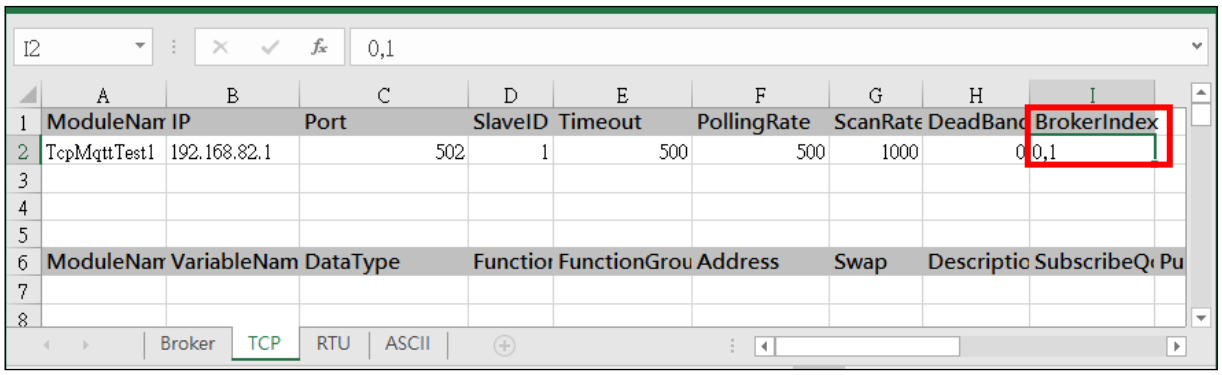


➔ The [Modbus TCP Module Content Setting] and [MQTT Client Setting] correspond to the TCP data in the Excel template file.

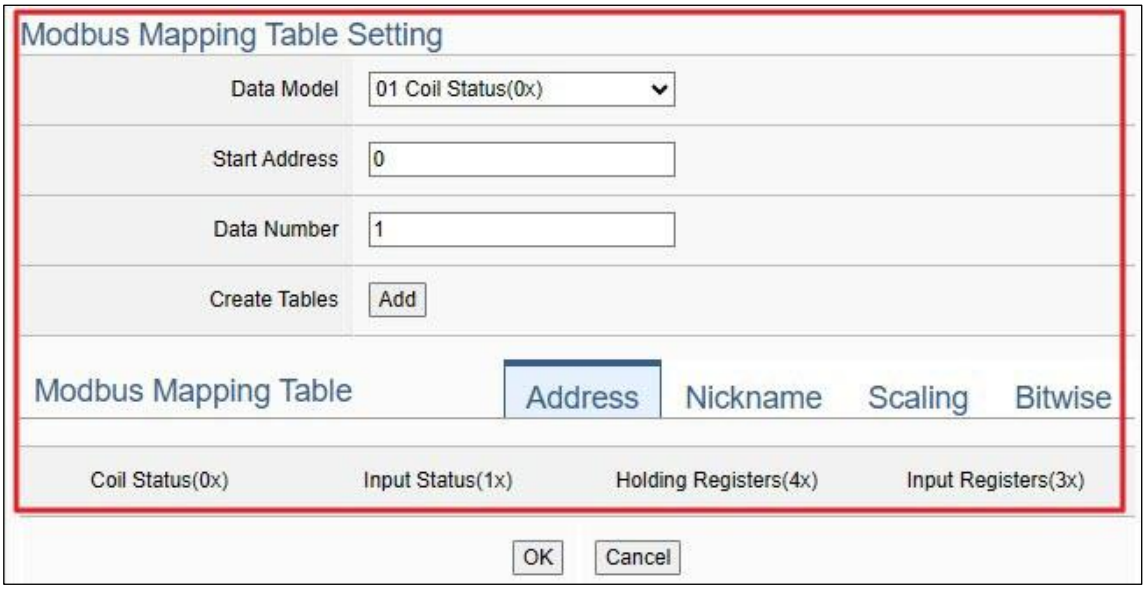


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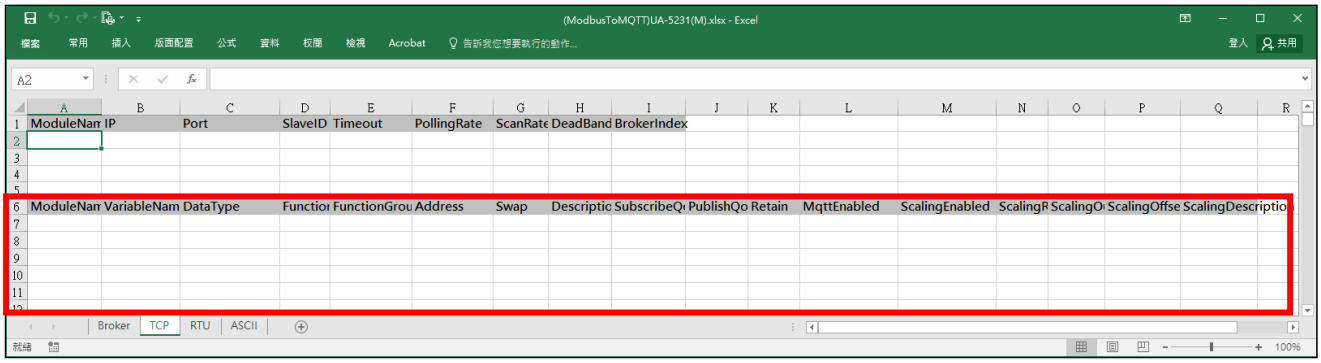
The BrokerIndex in Excel is the BrokerIndex in the Broker worksheet, if you want to send Modbus module data to different Brokers, please use "," to separate the BrokerIndex. As shown in the following picture.



✧ **Module Setting > TCP Module : Modbus Mapping Table Setting**



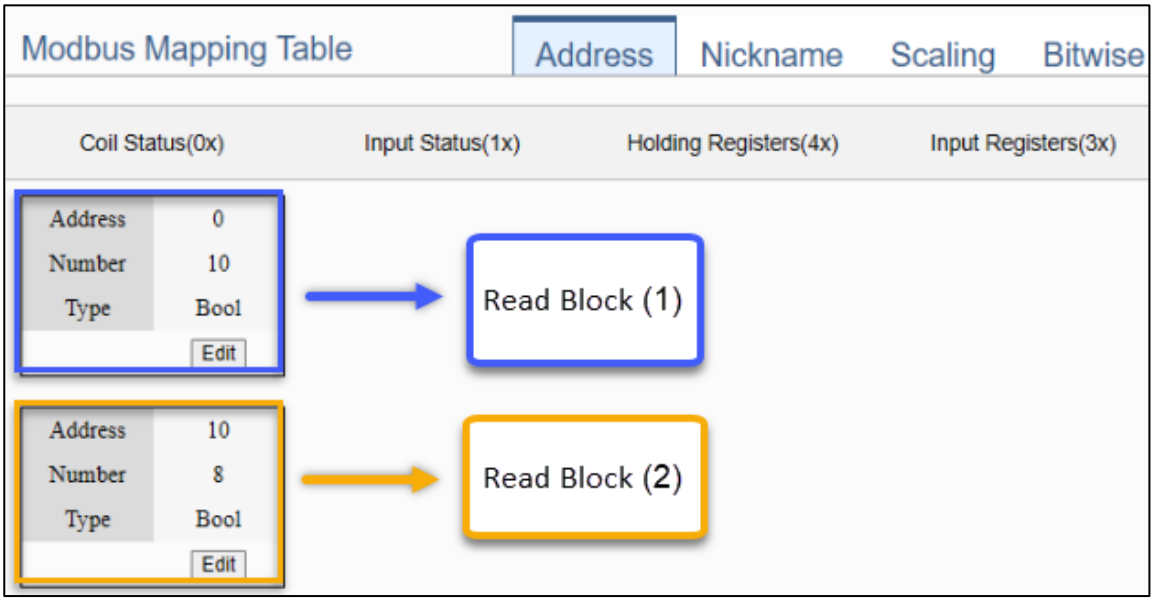
➔ The [Modbus Mapping Table Setting] corresponds to the TCP data in the Excel template file.

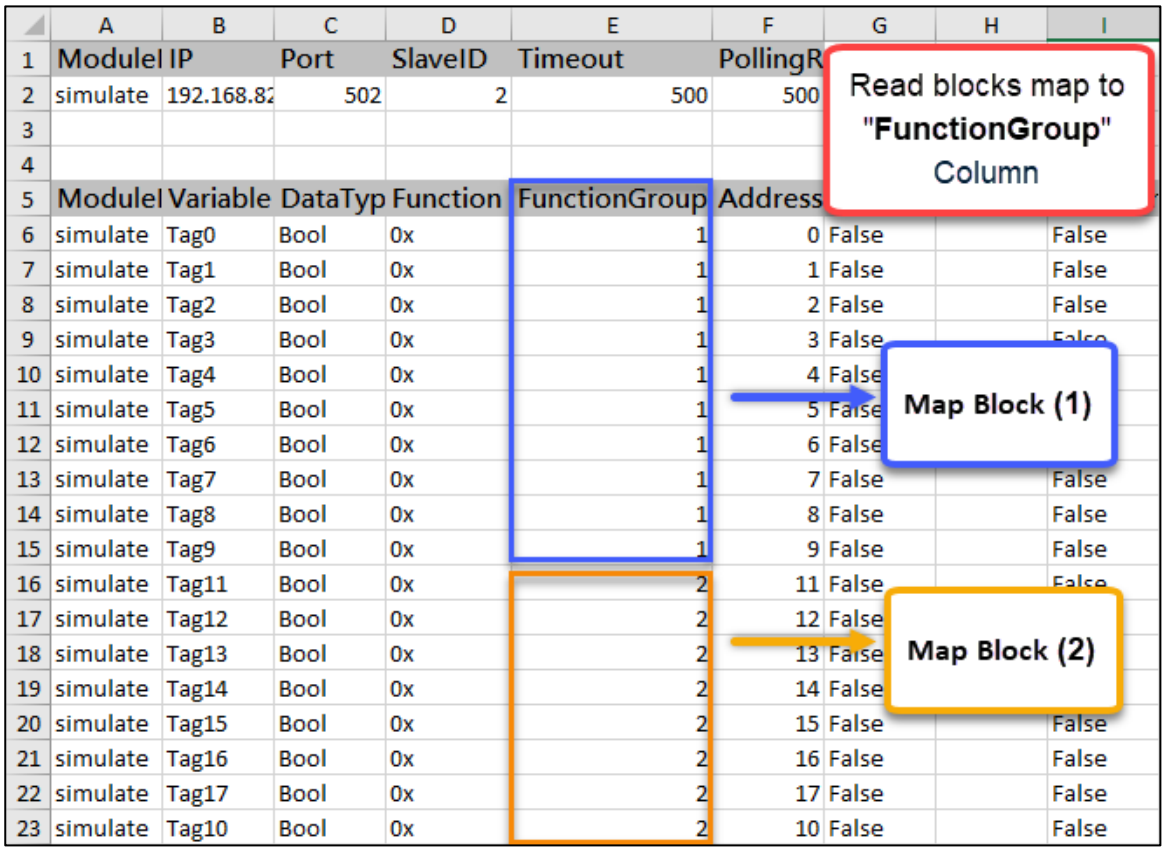


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➔ **FunctionGroup Description (Using Template File as Example)**

The "**Read Block**" in UA web UI maps to the "**FunctionGroup**" column in the Excel template file.





	A	B	C	D	E	F	G	H	I
1	ModuleI	IP	Port	SlaveID	Timeout	PollingR			
2	simulate	192.168.82	502	2	500	500			
3									
4									
5	ModuleI	Variable	DataTyp	Function	FunctionGroup	Address			
6	simulate	Tag0	Bool	0x	1	0	False		False
7	simulate	Tag1	Bool	0x	1	1	False		False
8	simulate	Tag2	Bool	0x	1	2	False		False
9	simulate	Tag3	Bool	0x	1	3	False		
10	simulate	Tag4	Bool	0x	1	4	False		
11	simulate	Tag5	Bool	0x	1	5	False		
12	simulate	Tag6	Bool	0x	1	6	False		
13	simulate	Tag7	Bool	0x	1	7	False		False
14	simulate	Tag8	Bool	0x	1	8	False		False
15	simulate	Tag9	Bool	0x	1	9	False		False
16	simulate	Tag11	Bool	0x	2	11	False		
17	simulate	Tag12	Bool	0x	2	12	False		
18	simulate	Tag13	Bool	0x	2	13	False		
19	simulate	Tag14	Bool	0x	2	14	False		
20	simulate	Tag15	Bool	0x	2	15	False		False
21	simulate	Tag16	Bool	0x	2	16	False		False
22	simulate	Tag17	Bool	0x	2	17	False		False
23	simulate	Tag10	Bool	0x	2	10	False		False

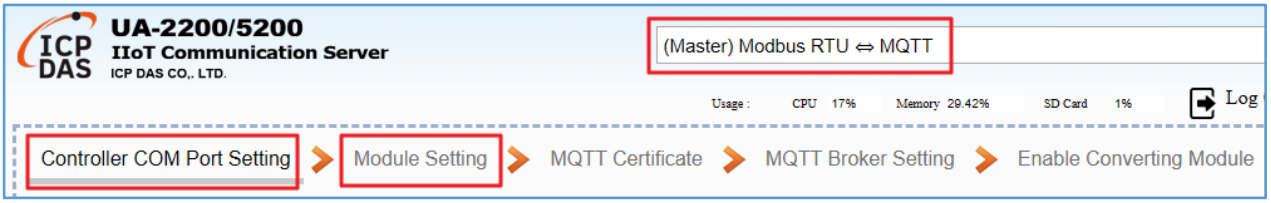
❖ A "**Read Block**" is a set of binding **starting addresses** and **register numbers**, designed to optimize communication efficiency and data management.

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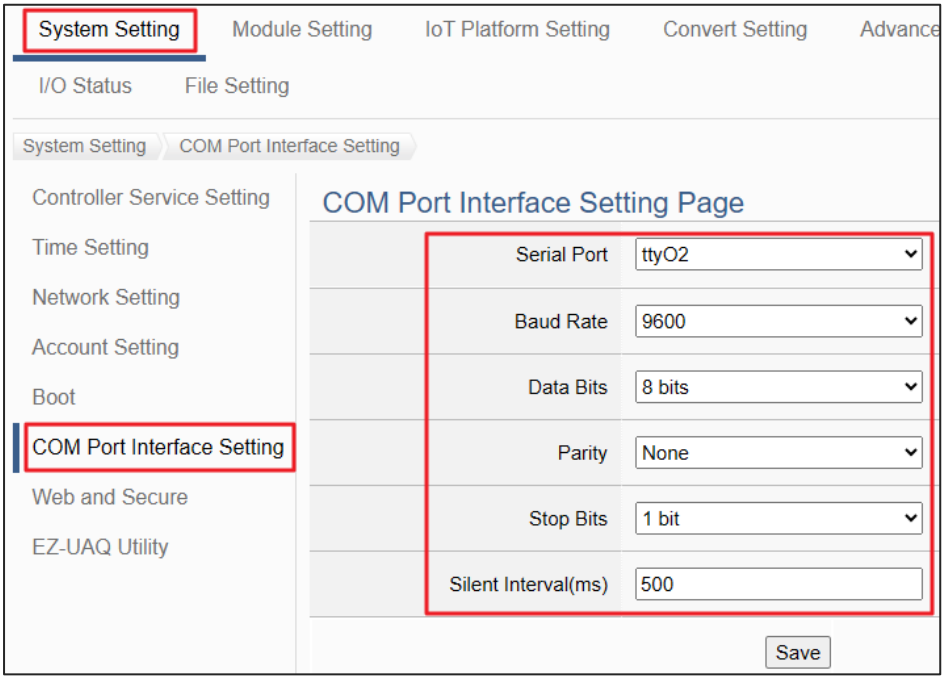
(3) Modbus RTU:

The RTU data in the Excel template file correspond to the **[System Setting > COM Port Interface Setting]** and **[Module Setting > RTU Module]** under the **[(Master) Modbus RTU ⇔ MQTT]** Function Wizard on the UA Web UI, as shown below:

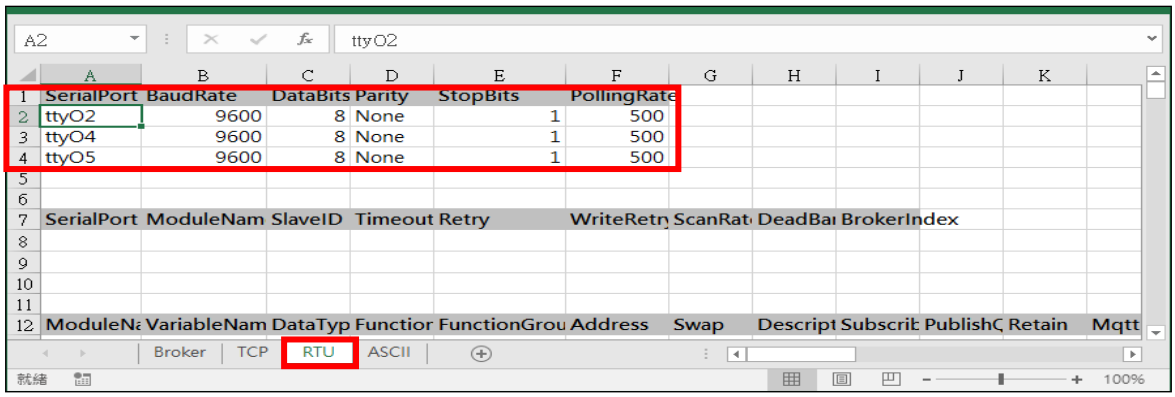
✧ **Function Wizard**



✧ **System Setting > COM Port Interface Setting**

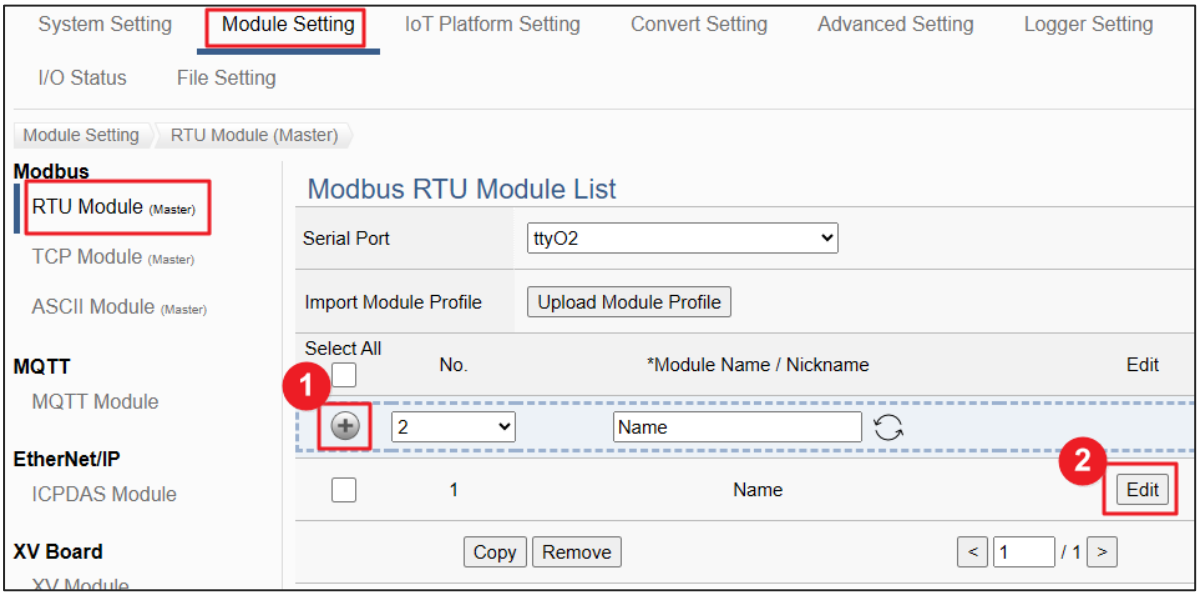


➔ The [COM Port Interface Setting] corresponds to the RTU data in the Excel template file.

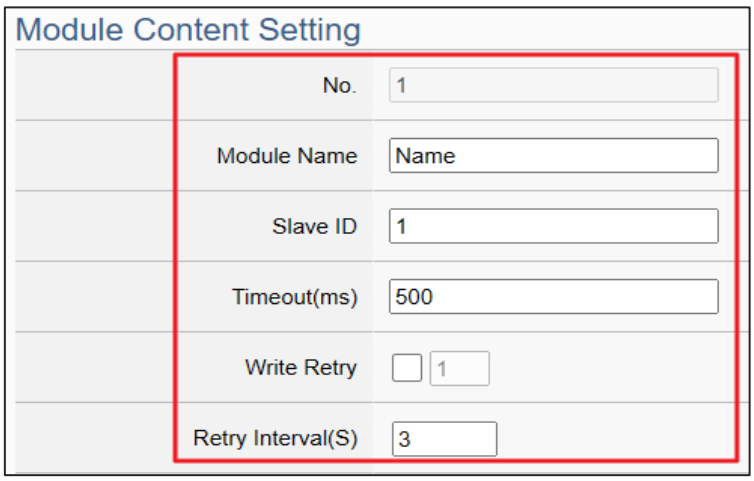


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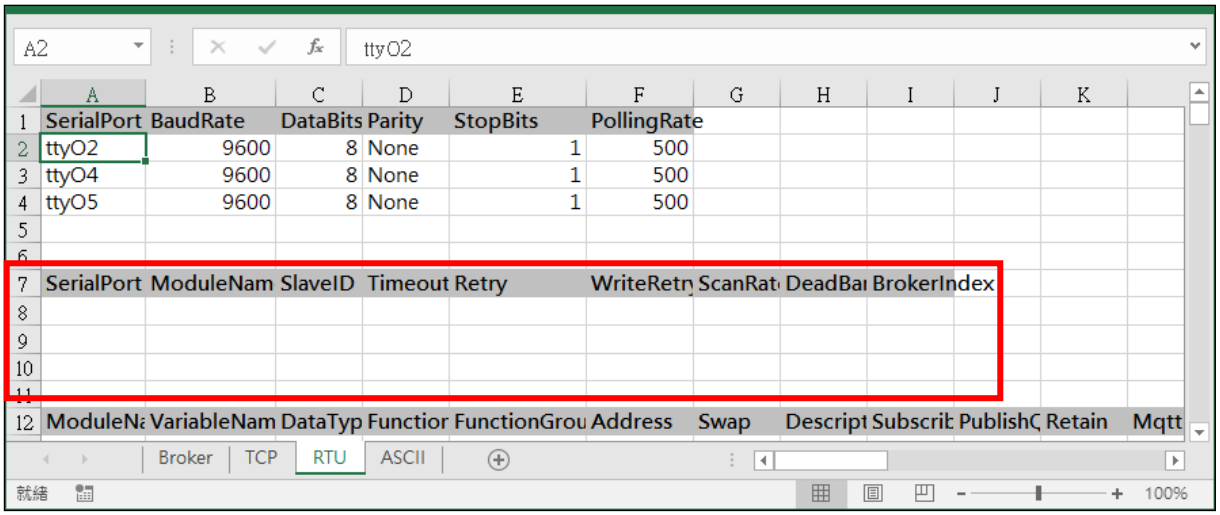
✧ Module Setting > RTU Module



a. Modbus RTU Module Content Setting

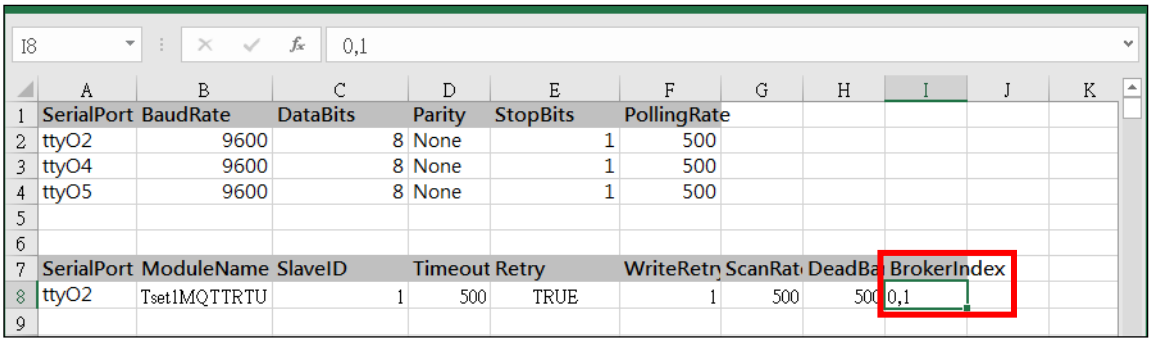


➔ The [Modbus RTU Module Content Setting] corresponds to the RTU data in the Excel template file.



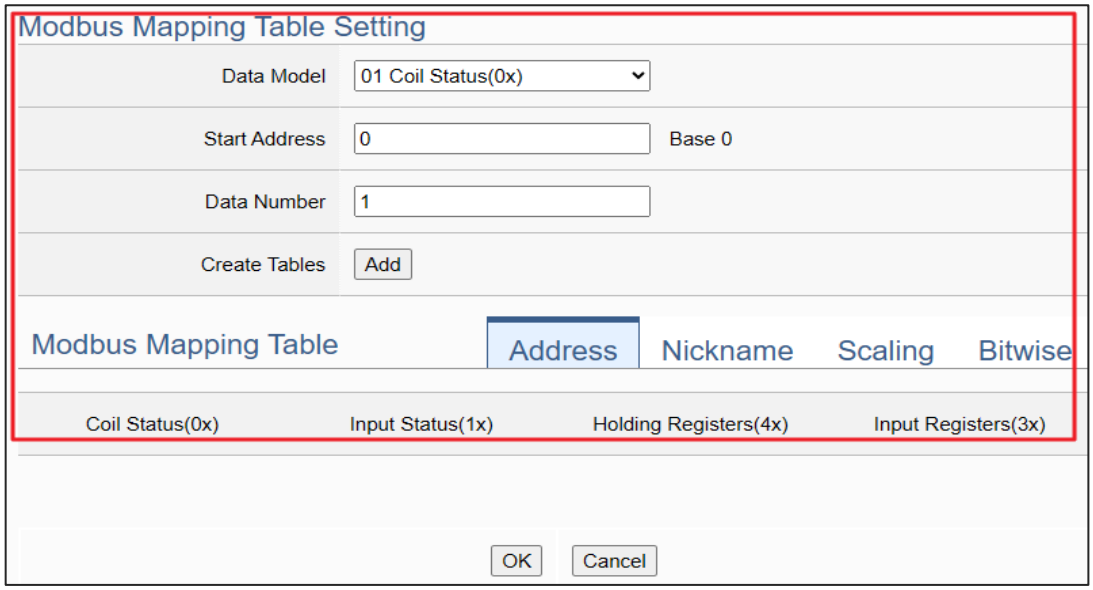
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The BrokerIndex in Excel is the BrokerIndex in the Broker worksheet, if you want to send Modbus module data to different Brokers, please use "," to separate the BrokerIndex. As shown in the following picture.

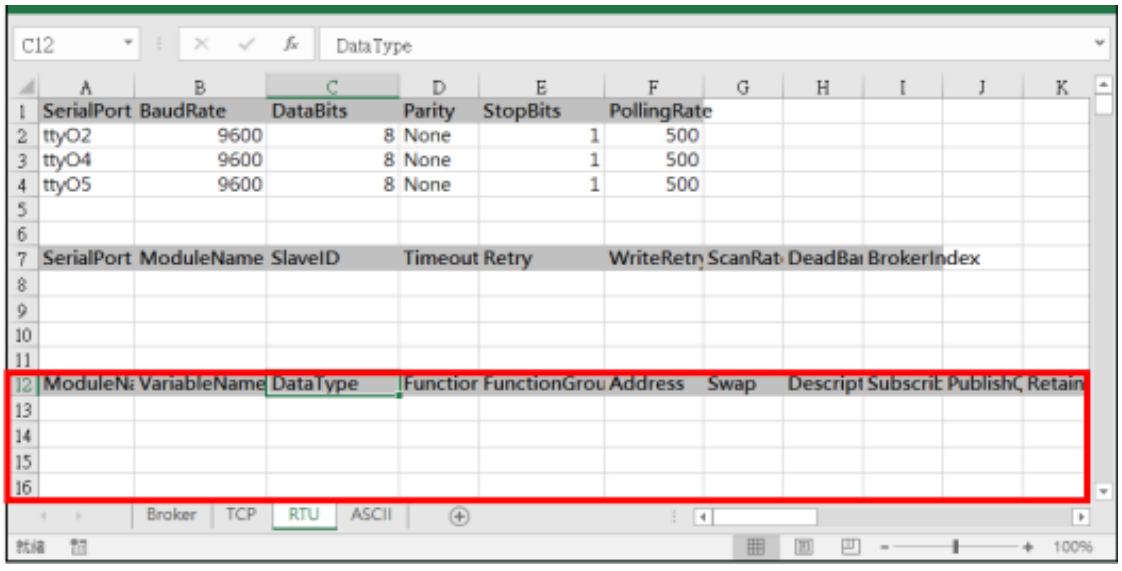


	A	B	C	D	E	F	G	H	I	J	K
1	SerialPort	BaudRate	DataBits	Parity	StopBits	PollingRate					
2	ttyO2	9600	8	None	1	500					
3	ttyO4	9600	8	None	1	500					
4	ttyO5	9600	8	None	1	500					
5											
6											
7	SerialPort	ModuleName	SlaveID	Timeout	Retry	WriteRetry	ScanRate	DeadBa	BrokerIndex		
8	ttyO2	Tset1MQTTRTU	1	500	TRUE	1	500	500	0,1		
9											

b. Modbus Mapping Table Setting



➔ The [Modbus Mapping Table Setting] corresponds to the RTU data in the Excel template file.

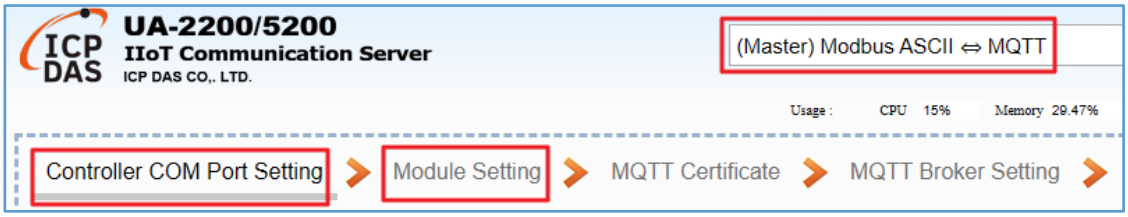


	A	B	C	D	E	F	G	H	I	J	K
1	SerialPort	BaudRate	DataBits	Parity	StopBits	PollingRate					
2	ttyO2	9600	8	None	1	500					
3	ttyO4	9600	8	None	1	500					
4	ttyO5	9600	8	None	1	500					
5											
6											
7	SerialPort	ModuleName	SlaveID	Timeout	Retry	WriteRetry	ScanRate	DeadBa	BrokerIndex		
8											
9											
10											
11											
12	ModuleNa	VariableName	DataType	Functior	FunctionGrou	Address	Swap	Descript	Subscrit	PublishQ	Retain
13											
14											
15											
16											

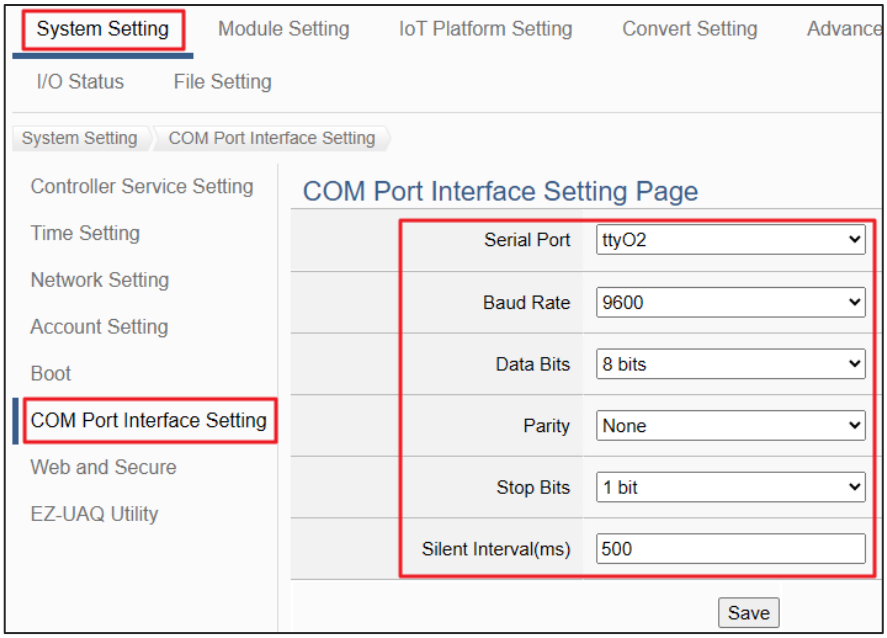
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(4) Modbus ASCII:

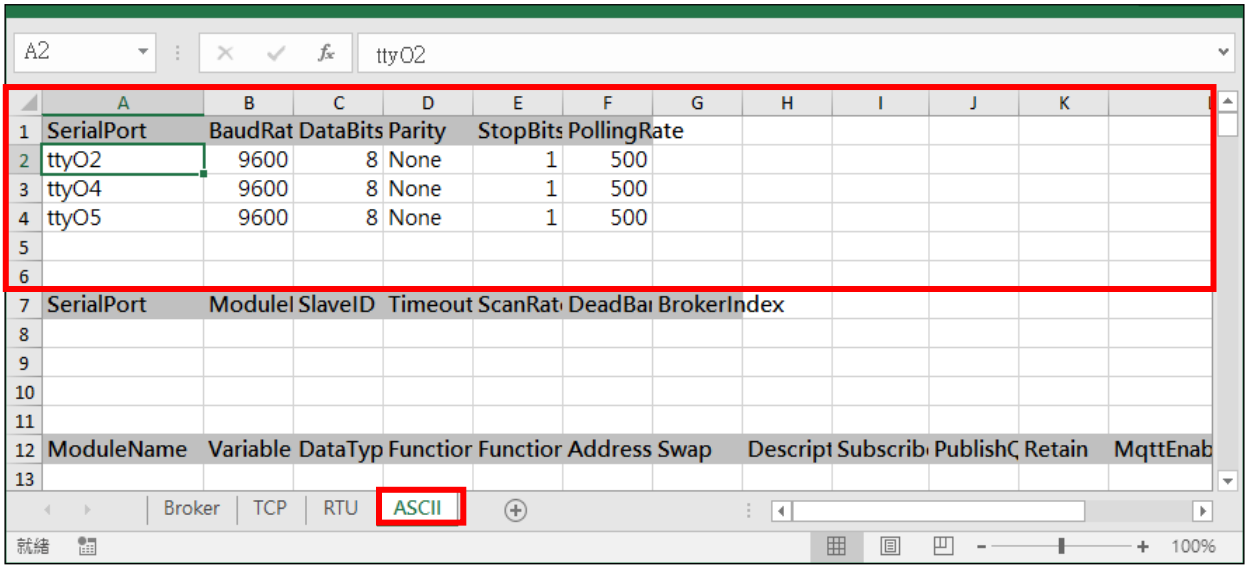
The ASCII data in the Excel template file correspond to the **[System Setting > COM Port Interface Setting]** and **[Module Setting > ASCII Module]** under the **[(Master) Modbus ASCII ⇔ MQTT]** Function Wizard on the UA Web UI, as shown below:



✧ **System Setting > COM Port Interface Setting**

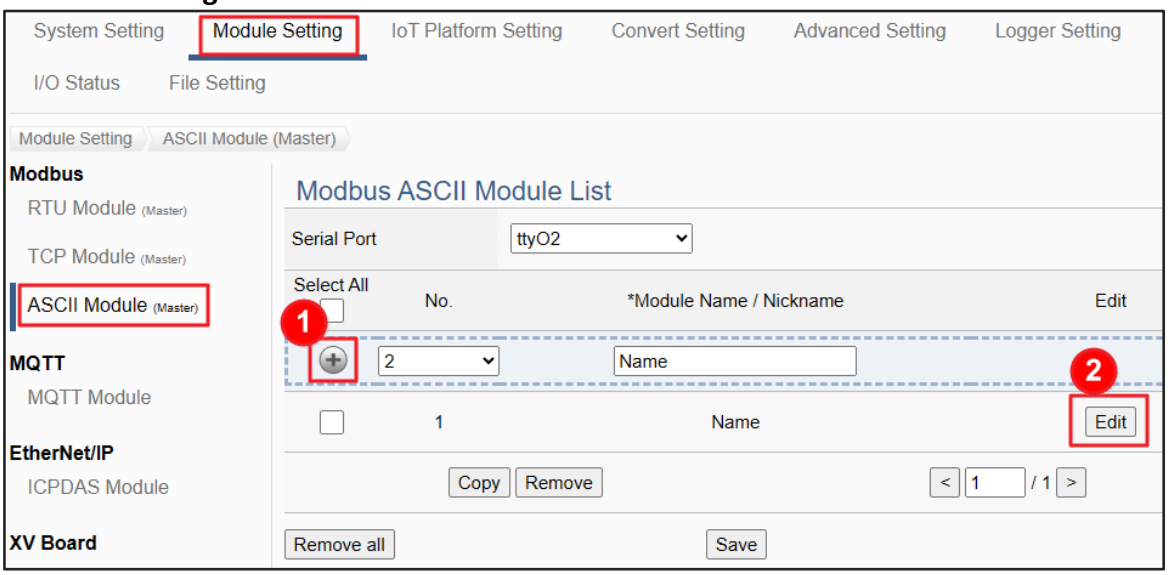


➔ The [COM Port Interface Setting] corresponds to the Modbus ASCII data in the Excel template file.

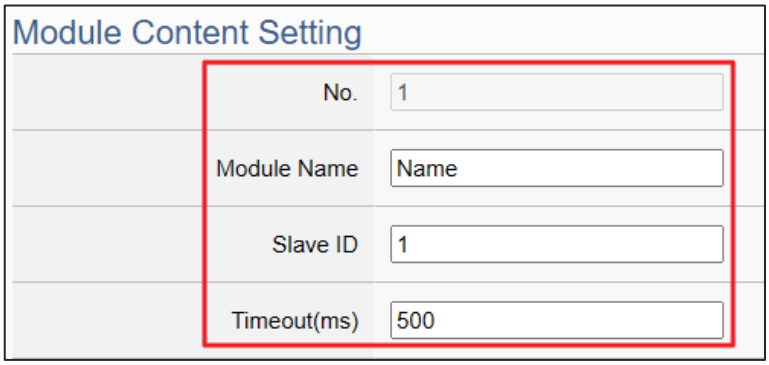


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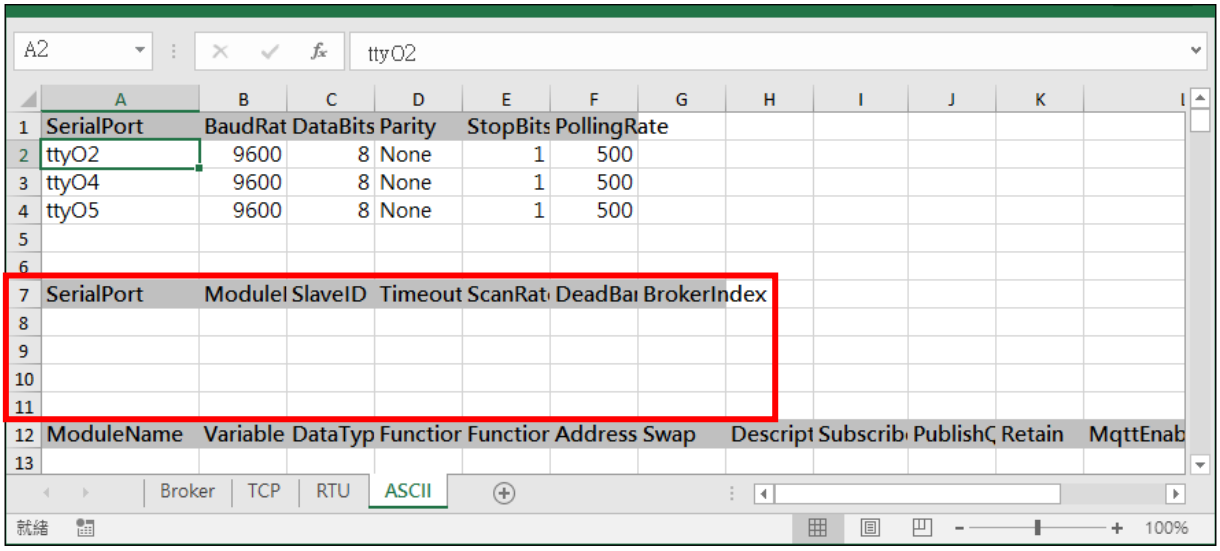
✧ Module Setting > ASCII Module



a. Modbus ASCII Module Content Setting

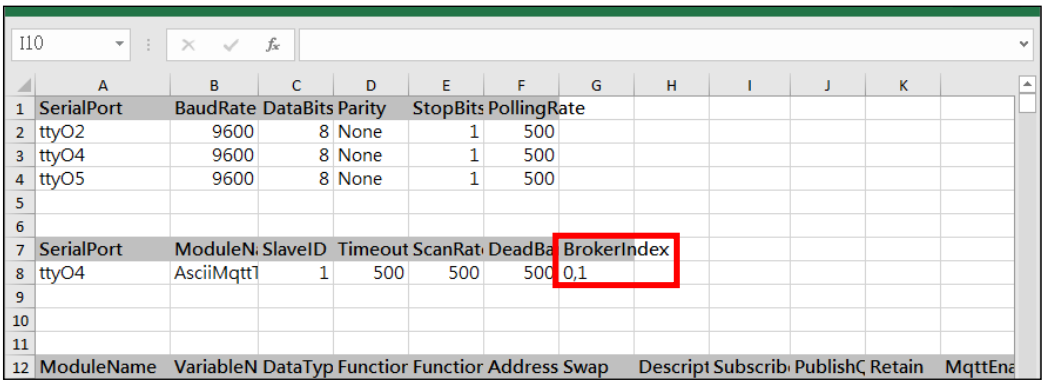


➔ The [Modbus ASCII Module Content Setting] corresponds to the ASCII data in the Excel template file.



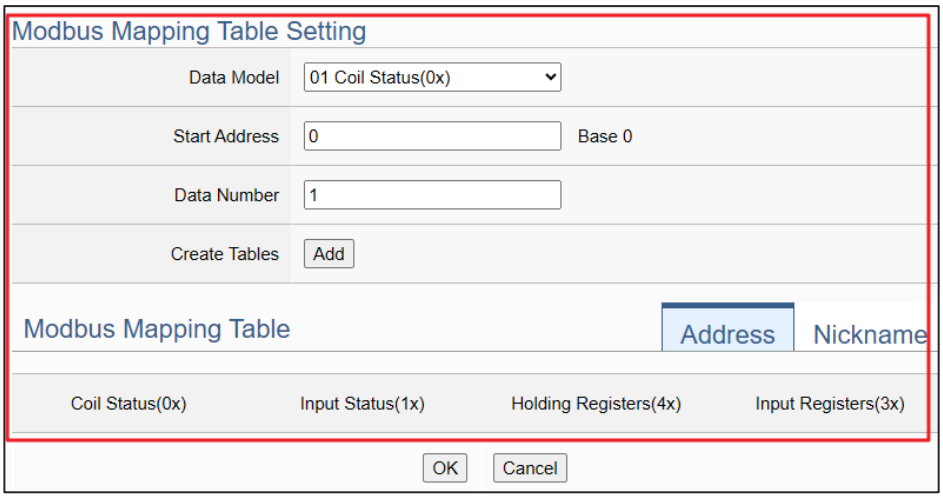
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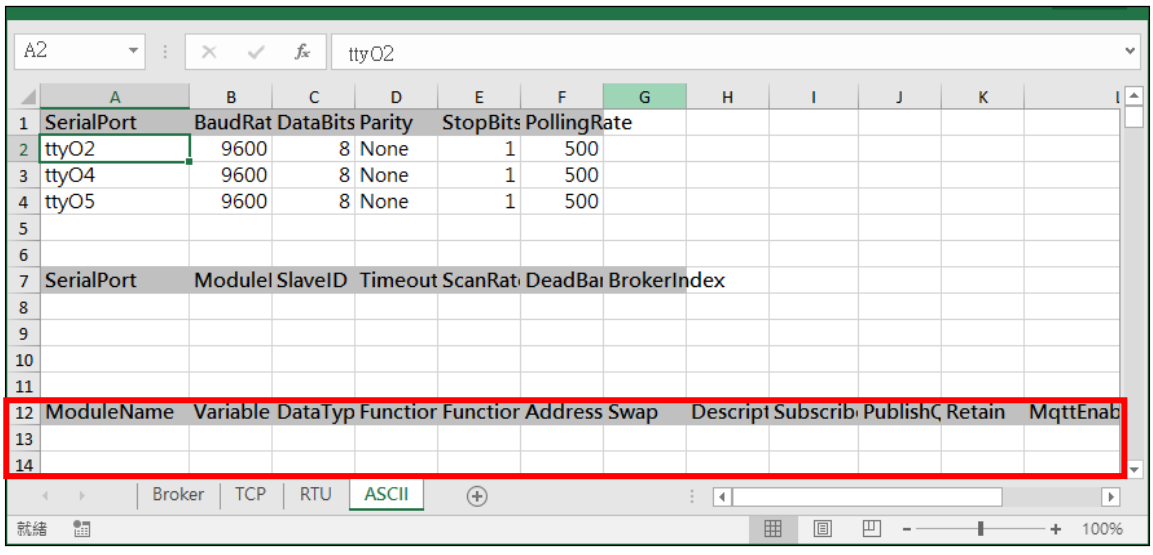


	A	B	C	D	E	F	G	H	I	J	K
1	SerialPort	BaudRate	DataBits	Parity	StopBits	PollingRate					
2	ttyO2	9600	8	None	1	500					
3	ttyO4	9600	8	None	1	500					
4	ttyO5	9600	8	None	1	500					
5											
6											
7	SerialPort	ModuleN	SlaveID	Timeout	ScanRat	DeadBa	BrokerIndex				
8	ttyO4	AsciiMqttT	1	500	500	500	0,1				
9											
10											
11											
12	ModuleName	VariableN	DataTyp	Functior	Functior	Address	Swap	Descript	Subscrib	PublishC	Retain	MqttEna

✧ Modbus Mapping Table Setting:



➔ The [Modbus Mapping Table Setting] corresponds to the ASCII data in the Excel template file.



	A	B	C	D	E	F	G	H	I	J	K
1	SerialPort	BaudRat	DataBits	Parity	StopBits	PollingRate					
2	ttyO2	9600	8	None	1	500					
3	ttyO4	9600	8	None	1	500					
4	ttyO5	9600	8	None	1	500					
5											
6											
7	SerialPort	Module	SlaveID	Timeout	ScanRat	DeadBa	BrokerIndex				
8											
9											
10											
11											
12	ModuleName	Variable	DataTyp	Functior	Functior	Address	Swap	Descript	Subscrib	PublishC	Retain	MqttEnab
13											
14											

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