



EZ-UAQ Utility

User Manual

V2.3.1

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Content of Table

Content of Table	3
1. Introduction	4
2. Preparation for installation	5
3. System Installation	6
4. User Interface Introduction	9
5. Interface Function Details	10
5.1 Toolbar.....	10
5.1.1 Language switching	10
5.1.2 Select Module	10
5.1.3 About.....	11
5.2 Functions	11
5.2.1 Basic Function	11
5.2.2 Advanced Function.....	15
5.2.3 Upload Function	20
5.2.4 Download Function	26
5.3 Display Area.....	32
6. Warning message	34
6.1 Warning Message Form.....	34
6.2 Warning Message Description	35
Appendix A	41
1. UA Series	41
2. UA I/O Series	41
3. BRK Series	41
Appendix B	42
How to add other languages	42
Appendix C	48
1. Set EZ-UAQ Utility password for UA communication server series	48
2. Set EZ-UAQ Utility password for UA I/O module series	48

1. Introduction

This document is to explain how to use the EZ-UAQ Utility software developed by ICP DAS. This software is developed to work with the UA Communication Server, UA-I/O, and BRK series products of ICP DAS. EZ-UAQ Utility. The software is installed on the computer (PC) and obtains UA Communication Server, UA-I/O, and BRK product information (e.g. IP Address, Mac Address, firmware version...etc.) via Ethernet and displays the information on the screen to provide the field personnel with information about the product modules. Besides, information show on the screen can be exported as a CSV file, and the saved CSV file can be imported into the screen for viewing.

Furthermore, using EZ-UAQ Utility software can easily and fast update firmware or project and download project or LOG files of single (or multiple) devices in the field. EZ-UAQ Utility provide details of modules that allow IT/OT personnel to be able to realize module information thus to improve internet safety. Supported firmware version, please refer to [Appendix A](#).

2. Preparation for installation

EZ-UAQ Utility software support following OS: Windows /10/11, 64/32 bit.

Before executing EZ-UAQ Utility software, please complete the setup of UA, UA-I/O, and BRK series and make sure the connection is correct (please refer to the user's manual of each series).

Microsoft .NET Framework Version 4.7 is required for the EZ-UAQ Utility software to run. Please download and install Microsoft .NET Framework before installing the EZ-UAQ Utility. The download sites are as follows:

- ◆ Microsoft .Net Framework Version 4.7 Download website

Download:

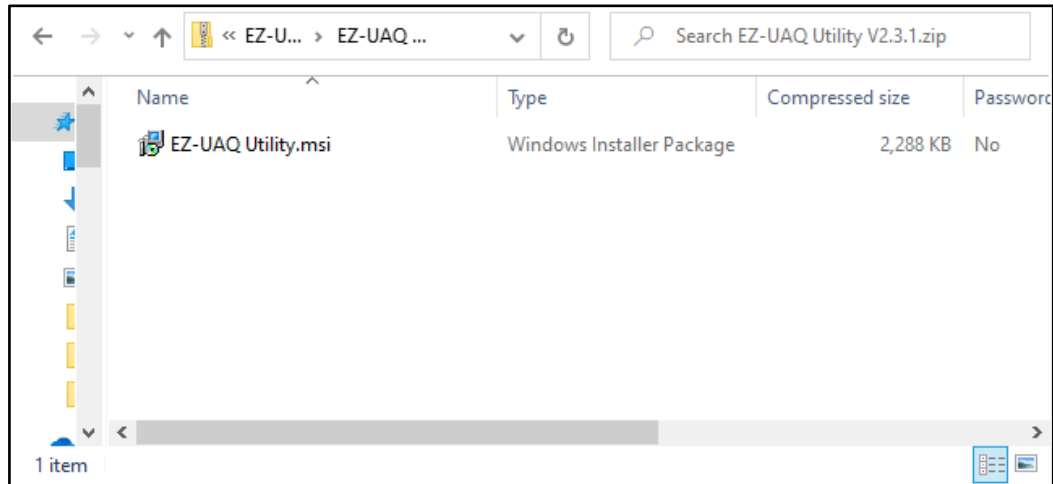
<https://dotnet.microsoft.com/en-us/download/dotnet-framework/net47>

3. System Installation

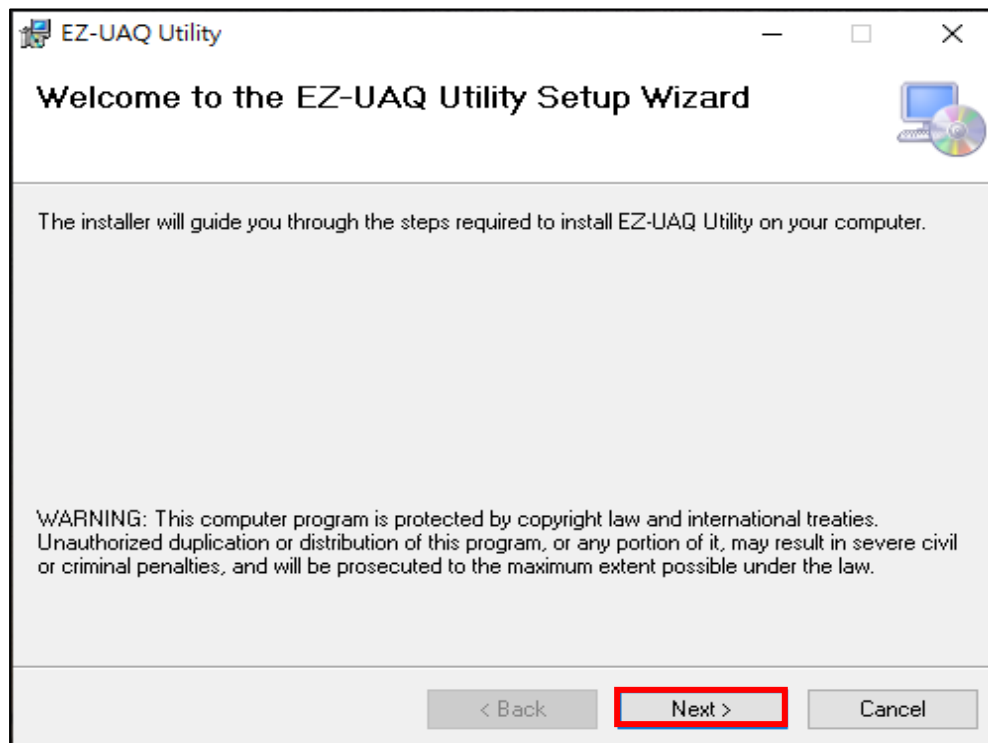
Please contact with delegates of ICP DAS or click to download EZ-UAQ Utility from following linkage:

https://www.icpdas.com/en/product/guide+Software+Utility_Driver+EZ-UAQ_Utility

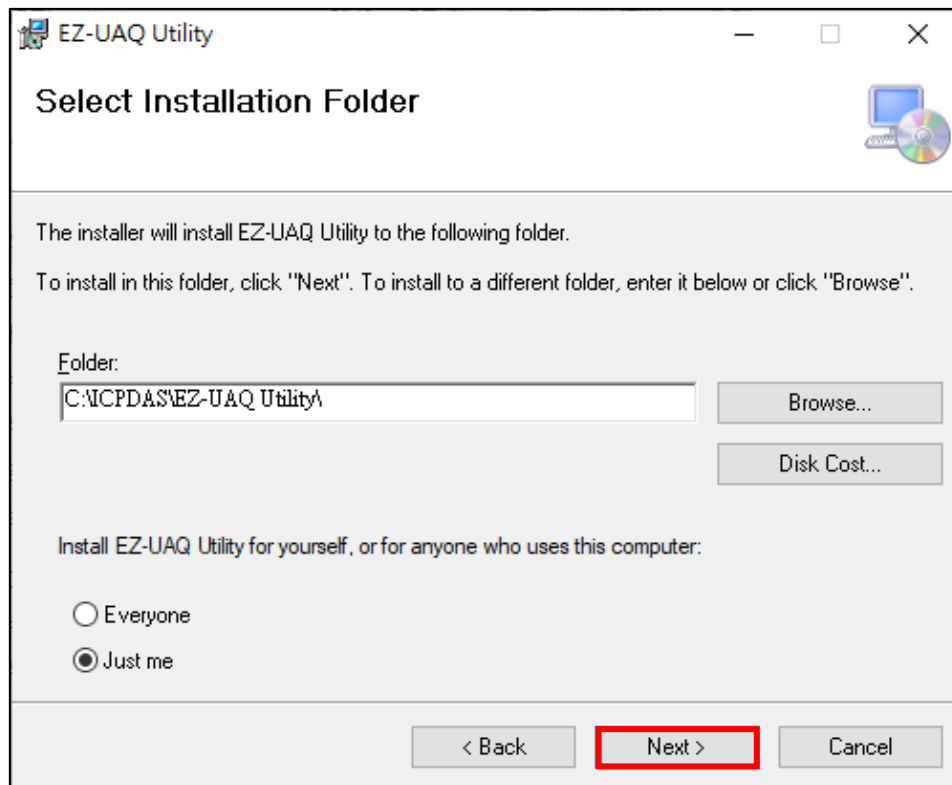
Download and unzipped EZ-UAQ Utility version 2.3.1 then shows file as following capture



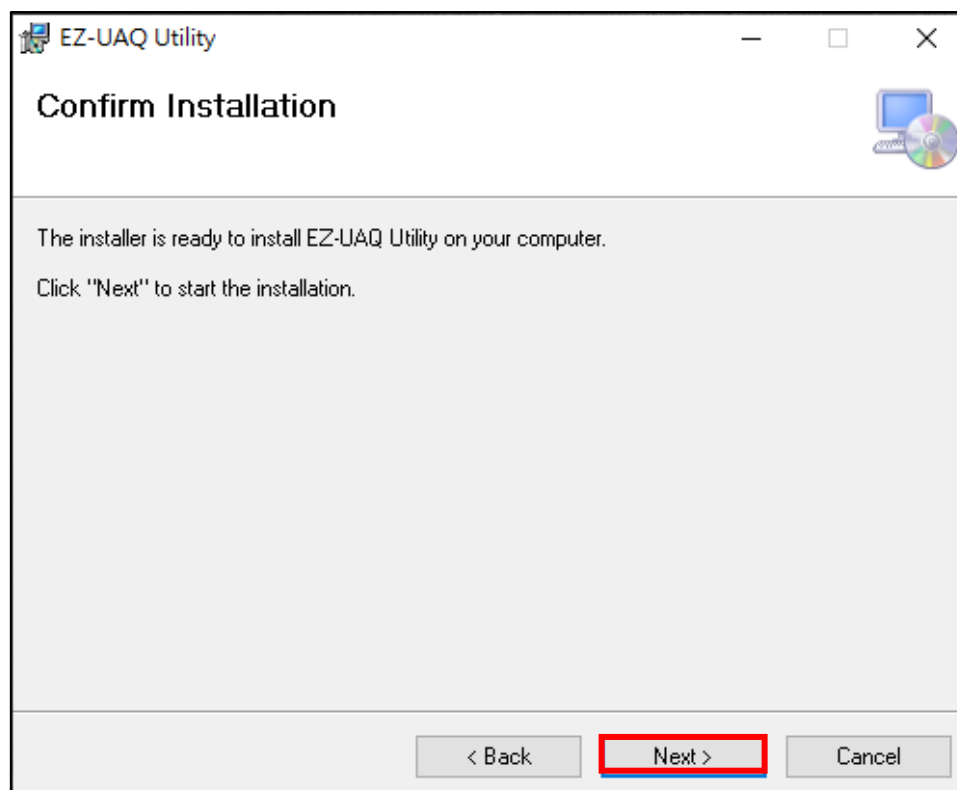
And click on the installation file to start the installation. Click [Next].



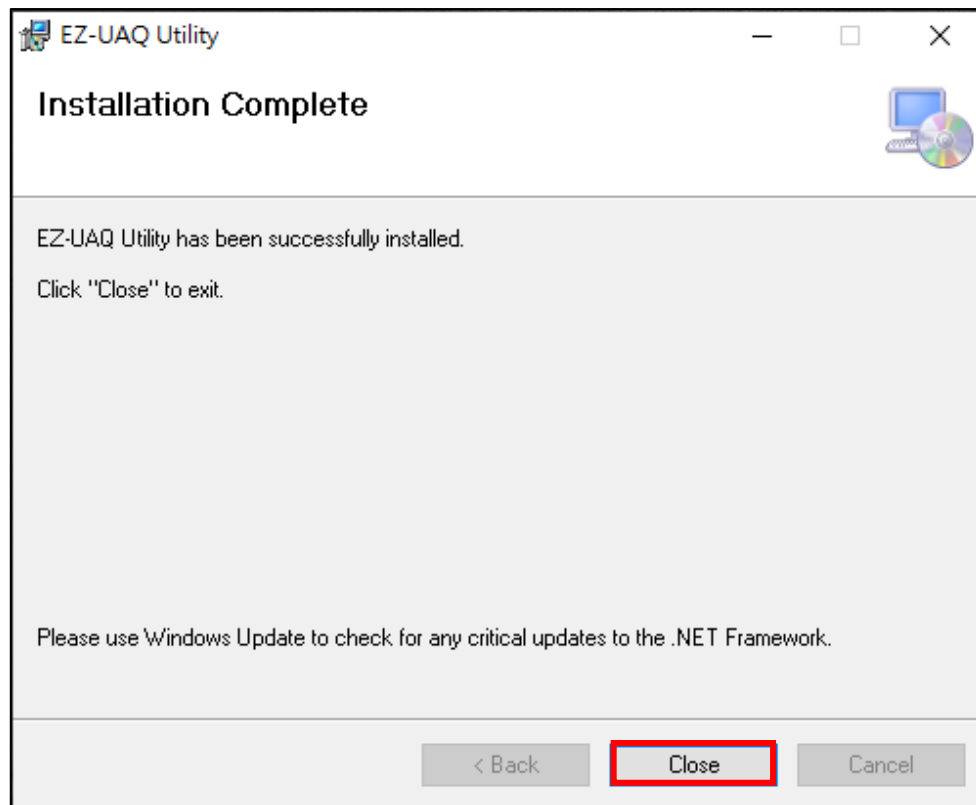
In the [Select Installation Folder] page, set the installation path and software user. Click [Next].



In the [Confirm Installation] page, make sure it is correct. Then click [Next].



When the installation is finished, click [Close] to end the installation.



After installation, the EZ-UAQ Utility software shortcut will be created on the desktop.



4. User Interface Introduction

The operation interface of EZ-UAQ Utility is introduced as follows:

Toolbar: Switching languages, Select module, About.

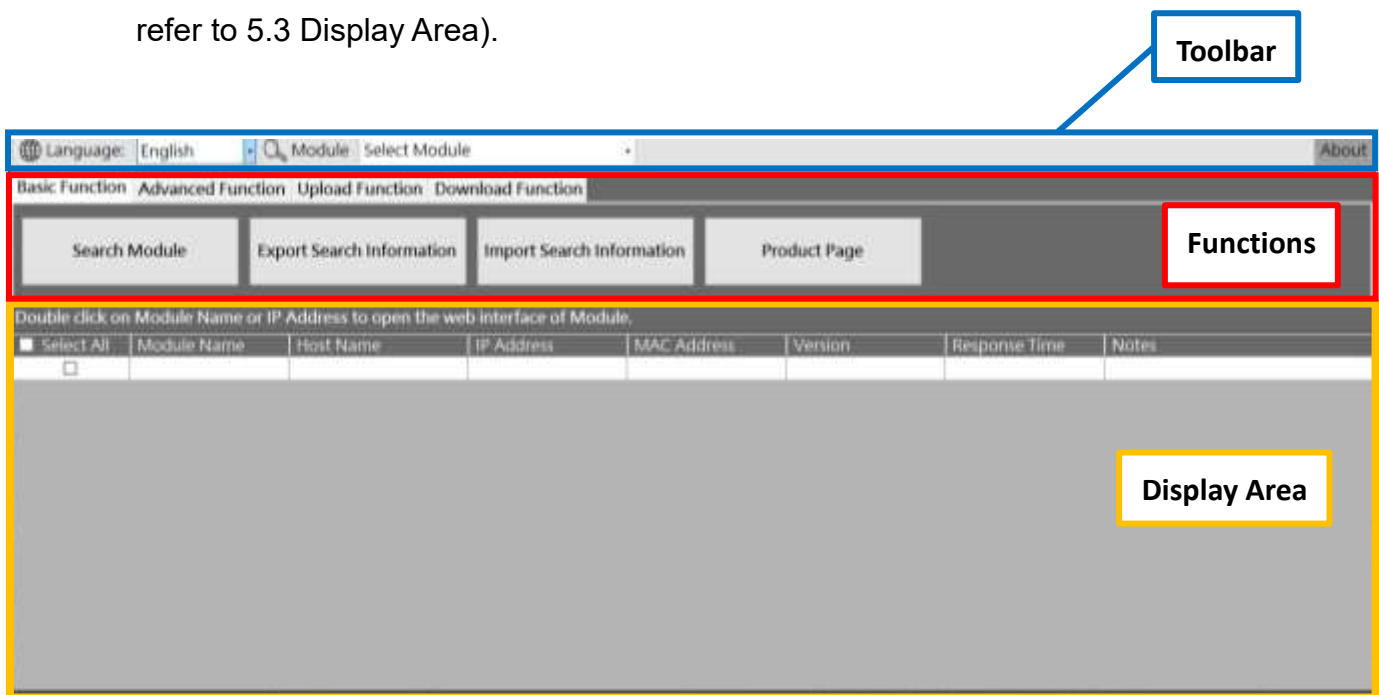
Functions: Four main functions of EZ-UAQ Utility

Basic/ Advanced Function: users can get information of modules.

Upload/ Download Function: to update firmware version or download details of multiple (or single) modules.

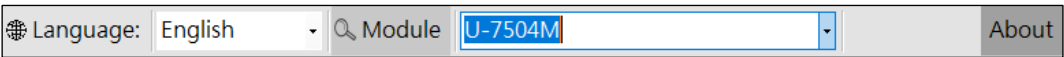
Display Area: Display Area: to show operation information of modules. Support following functions:

- Display module information include: Module Name, Host name, IP Address, firmware version, Respond Time and Note.
- Click module column will link to the module information coordinately.
- Users can choose to hide columns while these columns are too much information (please refer to 5.3 Display Area).



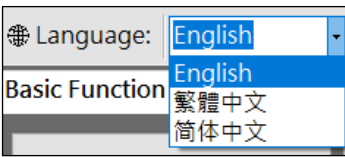
5. Interface Function Details

5.1 Toolbar



5.1.1 Language switching

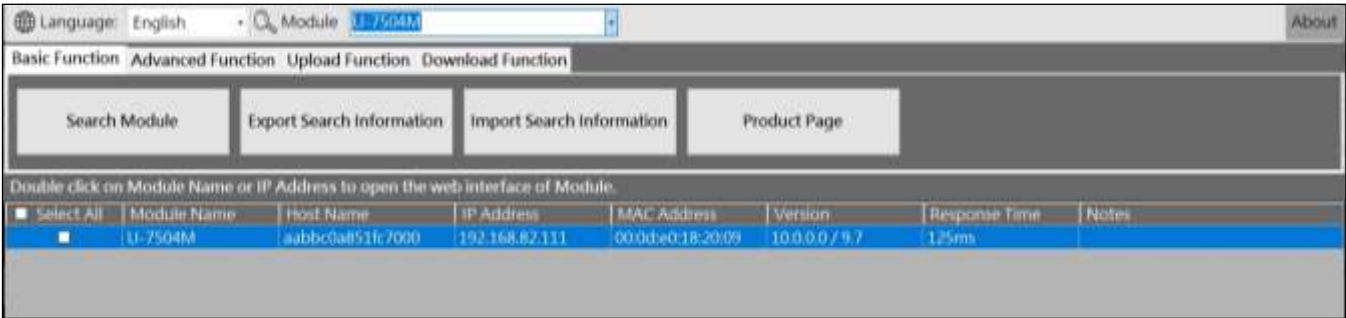
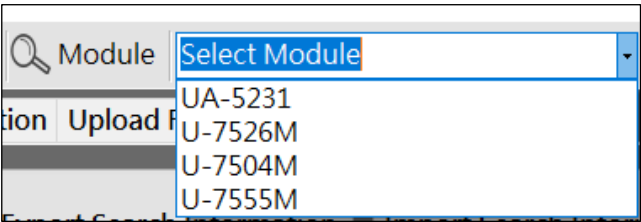
To change the software language, please click the drop down list in the toolbar (as following capture) and select the suitable language. Languages currently are available in Traditional Chinese, Simplified Chinese, and English. (Appendix B shows the method to add other languages,)



5.1.2 Select Module

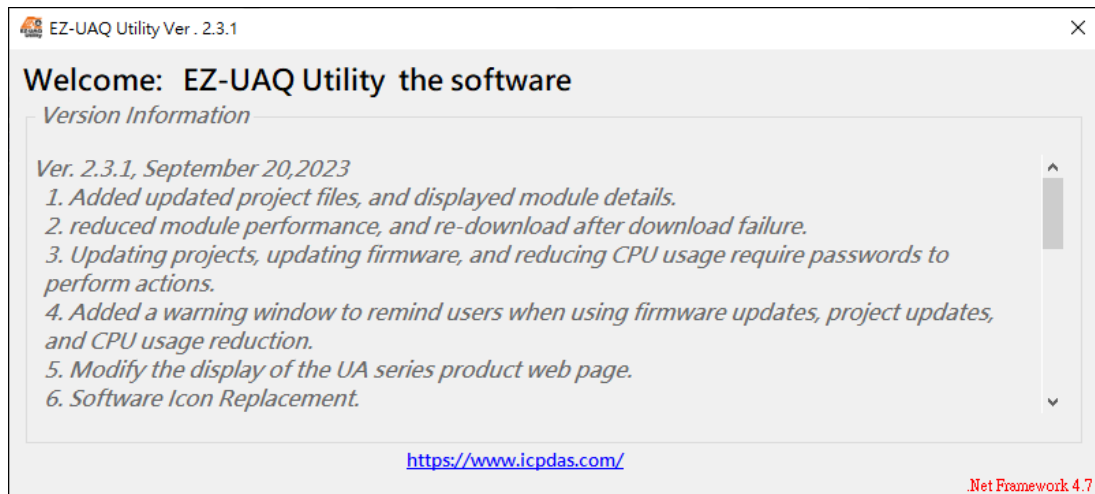
*** Note : This function requires the use of [Basic Function] →[Select Module](refer to [5.2.1](#))**

If you need to filter specific module, please click “search module”. Confirm that all modules are shown in the above column and click the drop down list of modules, select the module number, and the module will be in the Display Area. The following picture shows the selected U-7504M module.

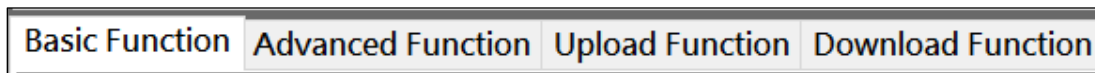


5.1.3 About

Display EZ-UAQ Utility version information and revision content. Click the “About” button on the tool bar and the framework version will display in the down-right corner of the window.



5.2 Functions

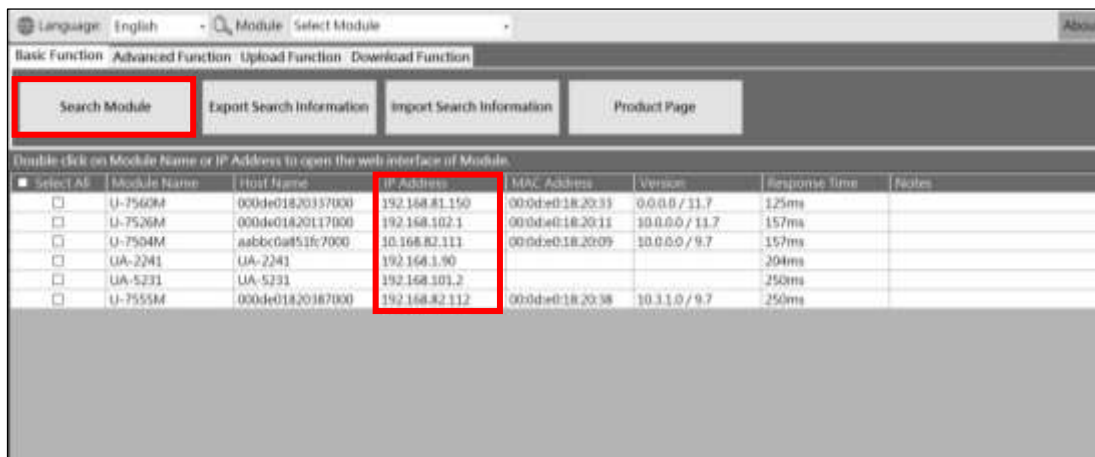


5.2.1 Basic Function



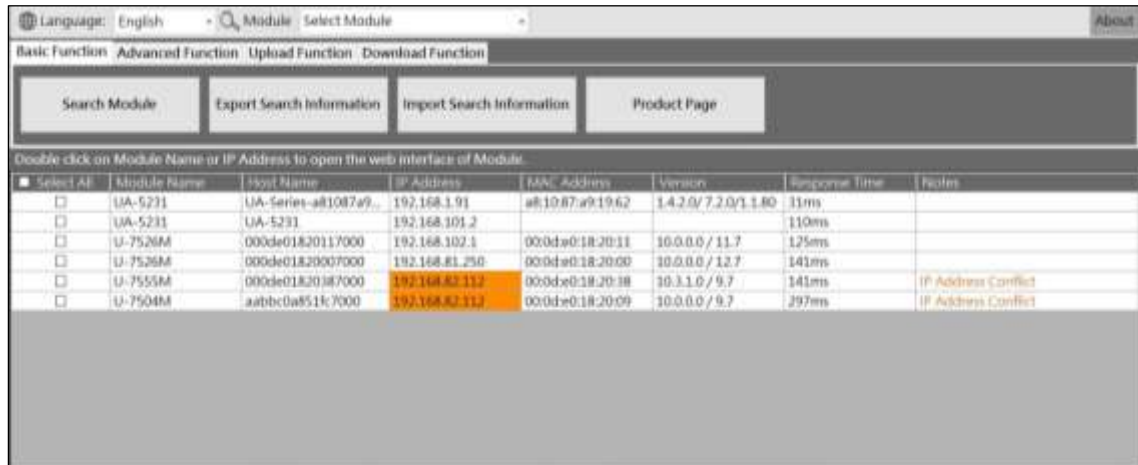
➤ Search Module

Click bottom of [Search Module] and will search for all UA, UA I/O and BRK series within the same IP segment.



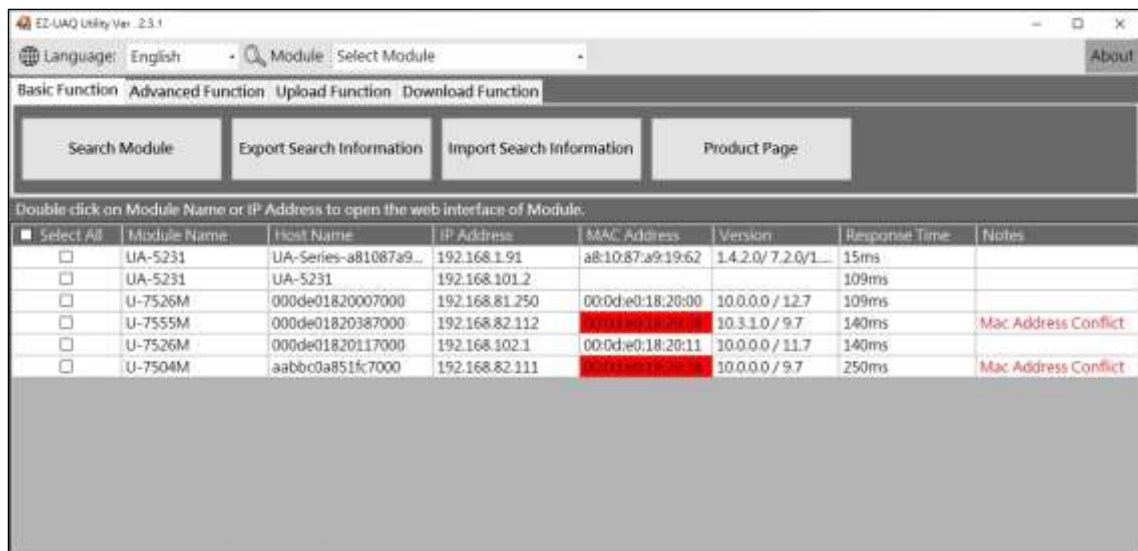
*** Note: if you encounter the following three conditions, please modify them as soon as possible, or contact product technical personnel for assistance.**

(1) **When module IP Address conflict occurs**, the column of [IP Address] will be in orange background and [notes] column shows in orange text.



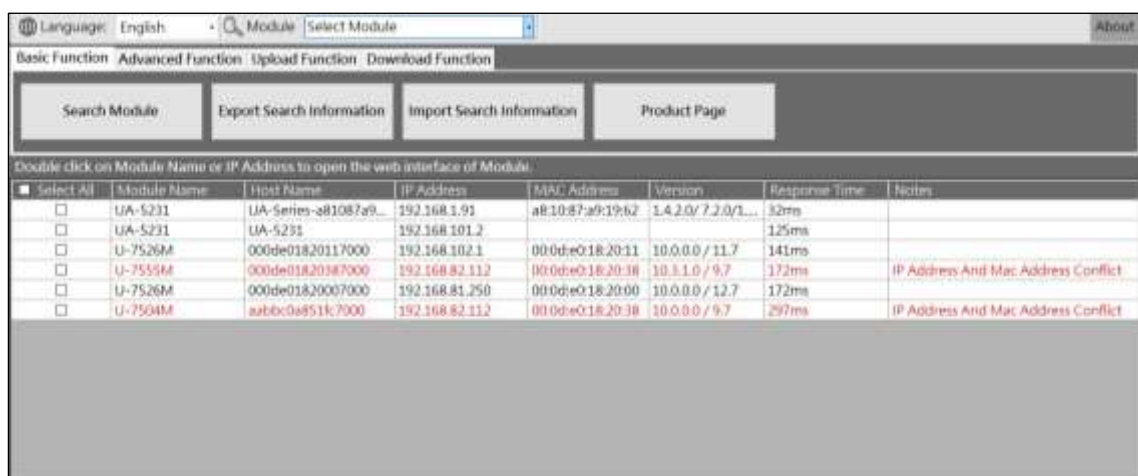
Select All	Module Name	Host Name	IP Address	MAC Address	Version	Response Time	Notes
<input type="checkbox"/>	UA-5231	UA-Series-a81087a9...	192.168.1.91	a8:10:87:a9:19:62	1.4.2.0/7.2.0/1.1.80	11ms	
<input type="checkbox"/>	UA-5231	UA-5231	192.168.101.2			110ms	
<input type="checkbox"/>	U-7526M	000de01820117000	192.168.102.1	00:0d:e0:18:20:11	10.0.0.0 / 11.7	125ms	
<input type="checkbox"/>	U-7526M	000de01820007000	192.168.81.250	00:0d:e0:18:20:00	10.0.0.0 / 12.7	141ms	
<input type="checkbox"/>	U-7555M	000de01820187000	192.168.82.112	00:0d:e0:18:20:18	10.3.1.0 / 9.7	141ms	IP Address Conflict
<input type="checkbox"/>	U-7504M	aabbc0a851fc7000	192.168.82.112	00:0d:e0:18:20:09	10.0.0.0 / 9.7	297ms	IP Address Conflict

(2) **When module MAC Address conflict occurs**, the column of [MAC Address] will be in red background and [notes] column shows in red text.



Select All	Module Name	Host Name	IP Address	MAC Address	Version	Response Time	Notes
<input type="checkbox"/>	UA-5231	UA-Series-a81087a9...	192.168.1.91	a8:10:87:a9:19:62	1.4.2.0/7.2.0/1...	15ms	
<input type="checkbox"/>	UA-5231	UA-5231	192.168.101.2			109ms	
<input type="checkbox"/>	U-7526M	000de01820007000	192.168.81.250	00:0d:e0:18:20:00	10.0.0.0 / 12.7	109ms	
<input type="checkbox"/>	U-7555M	000de01820187000	192.168.82.112	00:0d:e0:18:20:18	10.3.1.0 / 9.7	140ms	Mac Address Conflict
<input type="checkbox"/>	U-7526M	000de01820117000	192.168.102.1	00:0d:e0:18:20:11	10.0.0.0 / 11.7	140ms	
<input type="checkbox"/>	U-7504M	aabbc0a851fc7000	192.168.82.111	00:0d:e0:18:20:09	10.0.0.0 / 9.7	250ms	Mac Address Conflict

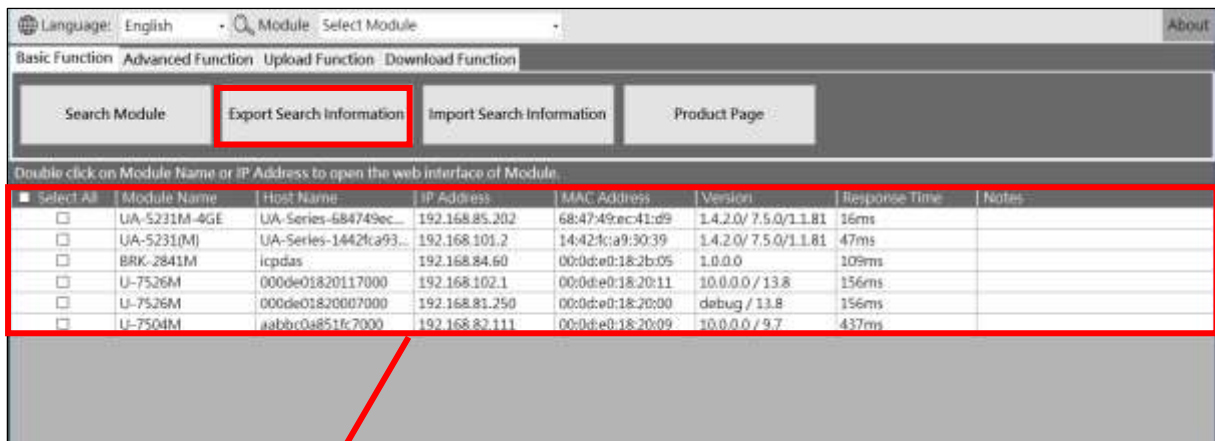
(3) **When module IP address conflicts with MAC address**, the module column will all display in red text.



Select All	Module Name	Host Name	IP Address	MAC Address	Version	Response Time	Notes
<input type="checkbox"/>	UA-5231	UA-Series-a81087a9...	192.168.1.91	a8:10:87:a9:19:62	1.4.2.0/7.2.0/1...	32ms	
<input type="checkbox"/>	UA-5231	UA-5231	192.168.101.2			125ms	
<input type="checkbox"/>	U-7526M	000de01820117000	192.168.102.1	00:0d:e0:18:20:11	10.0.0.0 / 11.7	141ms	
<input type="checkbox"/>	U-7555M	000de01820187000	192.168.82.112	00:0d:e0:18:20:18	10.3.1.0 / 9.7	172ms	IP Address And Mac Address Conflict
<input type="checkbox"/>	U-7526M	000de01820007000	192.168.81.250	00:0d:e0:18:20:00	10.0.0.0 / 12.7	172ms	
<input type="checkbox"/>	U-7504M	aabbc0a851fc7000	192.168.82.112	00:0d:e0:18:20:18	10.0.0.0 / 9.7	297ms	IP Address And Mac Address Conflict

➤ Export Search Information

Click on the button of [Export Search Information] will export all data shown in the Display Area as a CSV file. The exported file will take the year-month-day-hour-minute as the file name.



	A	B	C	D	E	F	G
1	Module Name	Host Name	IP Address	MAC Address	Version	Response Time	Notes
2	UA-5231M-4GE	UA-Series-684749ec41d9	192.168.85.202	68:47:49:ec:41:d9	1.4.2.0/7.5.0/1.1.81	16ms	
3	UA-5231(M)	UA-Series-1442fca93039	192.168.101.2	14:42:fca9:30:39	1.4.2.0/7.5.0/1.1.81	47ms	
4	BRK-2841M	icpdas	192.168.84.60	00:0d:e0:18:2b:05	1.0.0.0	109ms	
5	U-7526M	000de01820117000	192.168.102.1	00:0d:e0:18:20:11	10.0.0.0 / 13.8	156ms	
6	U-7526M	000de01820007000	192.168.81.250	00:0d:e0:18:20:00	debug / 13.8	156ms	
7	U-7504M	aabb0a851fc7000	192.168.82.111	00:0d:e0:18:20:09	10.0.0.0 / 9.7	437ms	

➤ Import Search Information

***Will be available in V3.0.0 and after.**

Click on the button of [Import Search Information] will import CSV files that are previously exported or from other computers into the Display Area.

Language: English | Module: Select Module | About

Basic Function | Advanced Function | Upload Function | Download Function

Search Module | Export Search Information | **Import Search Information** | Product Page

Double click on Module Name or IP Address to open the web interface of Module.

Select All	Module Name	Host Name	IP Address	MAC Address	Version	Response Time	Notes
<input type="checkbox"/>	UA-5231	UA-Series-a81087a9...	192.168.1.91	a8:10:87:a9:19:62	1.4.2.0/7.2.0/1.8.0	31ms	
<input type="checkbox"/>	U-7526M	000de01820117000	192.168.102.1	00:0d:e0:18:20:11	10.0.0.0/11.7	109ms	
<input type="checkbox"/>	U-7526M	000de01820007000	192.168.81.250	00:0d:e0:18:20:00	10.0.0.0/12.7	172ms	
<input type="checkbox"/>	U-7504M	aabbcd0a851fc7000	192.168.82.111	00:0d:e0:18:20:09	10.0.0.0/9.7	172ms	
<input type="checkbox"/>	U-7555M	000de01820387000	192.168.82.112	00:0d:e0:18:20:38	10.3.1.0/9.7	172ms	
<input type="checkbox"/>	UA-5231	UA-5231	192.168.101.2			219ms	

CSV | 2023_08_08_09_40.csv | 2023/8/8 上午 09:40 | Microsoft Excel... | 1 KB

➤ Product Page

When the module is not detected, click the [Product Page] button will open the official website of UA Communication Server, UA I/O and BRK series. When switch into another language, click [Product Page] to open the corresponding language page.

Language: English | Module: Select Module | About

Basic Function | Advanced Function | Upload Function | Download Function

Search Module | Export Search Information | Import Search Information | **Product Page**

Double click on Module Name or IP Address to open the web interface of Module.

Select All	Module Name	Host Name	IP Address	MAC Address	Version	Response Time	Notes
<input type="checkbox"/>	UA-5231	UA-Series-a81087a9...	192.168.1.91	a8:10:87:a9:19:62	1.4.2.0/7.2.0/1.8.0	31ms	
<input type="checkbox"/>	U-7526M	000de01820117000	192.168.102.1	00:0d:e0:18:20:11	10.0.0.0/11.7	109ms	
<input type="checkbox"/>	U-7526M	000de01820007000	192.168.81.250	00:0d:e0:18:20:00	10.0.0.0/12.7	172ms	
<input type="checkbox"/>	U-7504M	aabbcd0a851fc7000	192.168.82.111	00:0d:e0:18:20:09	10.0.0.0/9.7	172ms	
<input type="checkbox"/>	U-7555M	000de01820387000	192.168.82.112	00:0d:e0:18:20:38	10.3.1.0/9.7	172ms	
<input type="checkbox"/>	UA-5231	UA-5231	192.168.101.2			219ms	

IoT Communication Server: UA Series

IoT Cloud Solution

Connect IT with OT - IoT Devices
Build IoT Global Competitiveness
IoT Cloud Solution - (James January 6)

Introduction

OPC UA IoT module is a series of IoT Ethernet I/O modules, known as UA I/O or U-7500 Series. It has a built-in dual-port Ethernet switch, to implement star or chain topology. The adding is straightforward and can reduce the total cable and switch cost. It follows IEEE 802.3at (Class 2) compliant Power over Ethernet (PoE) specification. It allows receiving power from the available network by Ethernet ports. This feature provides greater flexibility and efficiency in strongly system design, save space, and reduce wiring. A power supply.

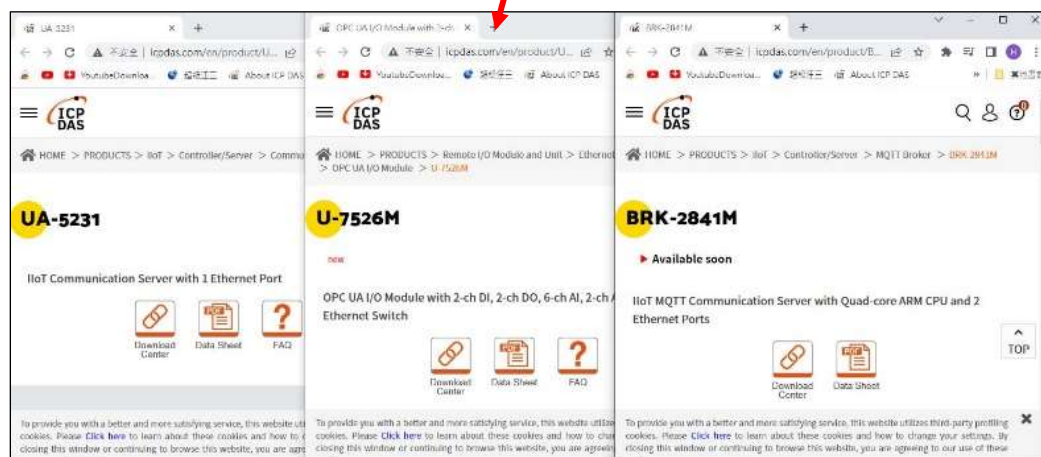
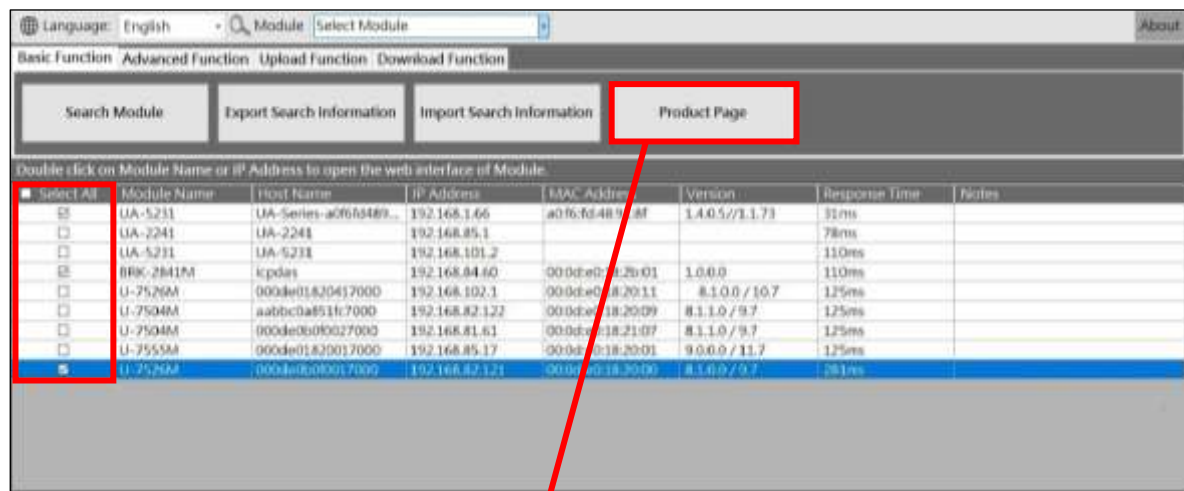
In industrial communication, UA I/O supports the OPC UA server and MQTT client and RESTful API communication functions. (and can be used to provide a secure and reliable communication channel for data exchange and control. These data can be used for data storage and for data analysis, as well as for the control of the production process. The UA I/O module is a key component of the UA I/O system, and it is essential for the system to be able to communicate with the UA I/O module.)

MQTT

MQTT (Message Queuing Telemetry Transport) is a communication architecture designed by IBM for the Internet of Things (IoT). It is useful for mobile applications because of its small size, low power usage, minimal data packets, and efficient distribution of information to one or many receivers, especially in unreliable networks. MQTT is implemented based on the publish/subscribe architecture. In its network, there is a broker (server) responsible for the intermediary layer of information, and other devices can send information to the Broker by publishing a topic, or get information from the Broker by subscribing to a topic.

OPC Series is Small of MQTT, can connect large amount of IoT devices with MQTT protocol. For example, the UA I/O series of data is: temperature, humidity, CO2, CO, Temperature, Humidity and Time. The communication mechanism that supports MQTT publishes the collected on-site real-time parameters to the MQTT broker, and can directly monitor the on-site environment from a long distance by subscribing. It provides a secure and reliable communication channel for data exchange and control. These data can be used for data storage and for data analysis, as well as for the control of the production process. The UA I/O module is a key component of the UA I/O system, and it is essential for the system to be able to communicate with the UA I/O module.

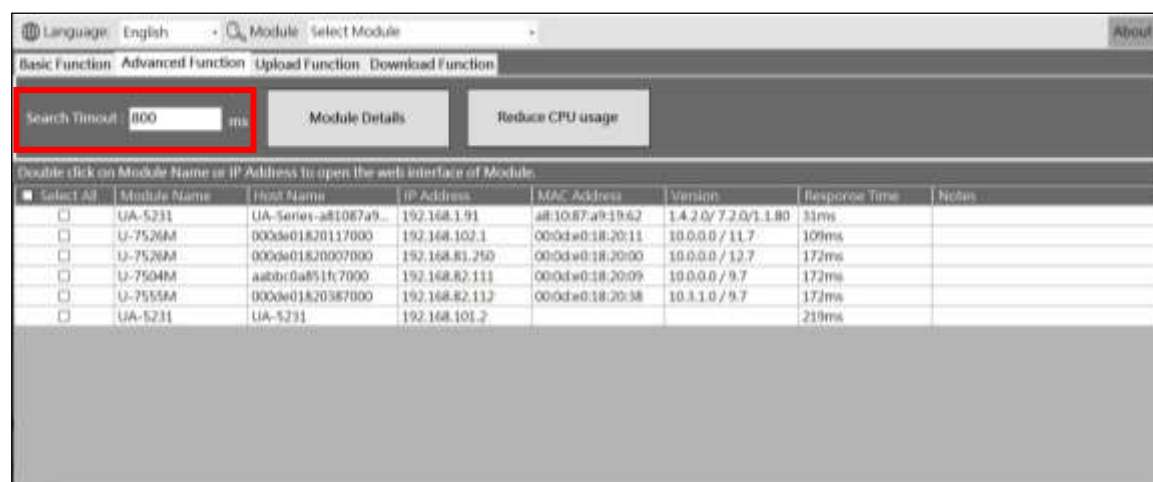
When you check the [Product Page], and click the "Product Page" button, it will open the product model page when you switch to another language, click [Product Page] to open the corresponding language page.



5.2.2 Advanced Function

➤ Search Timeout

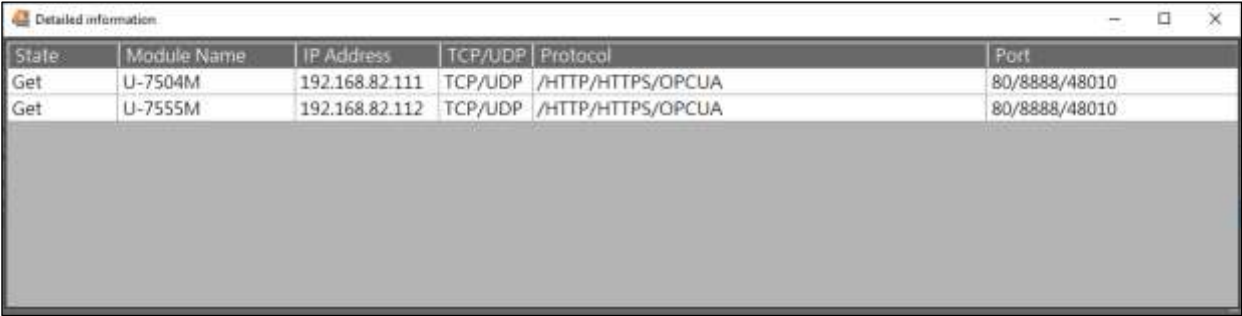
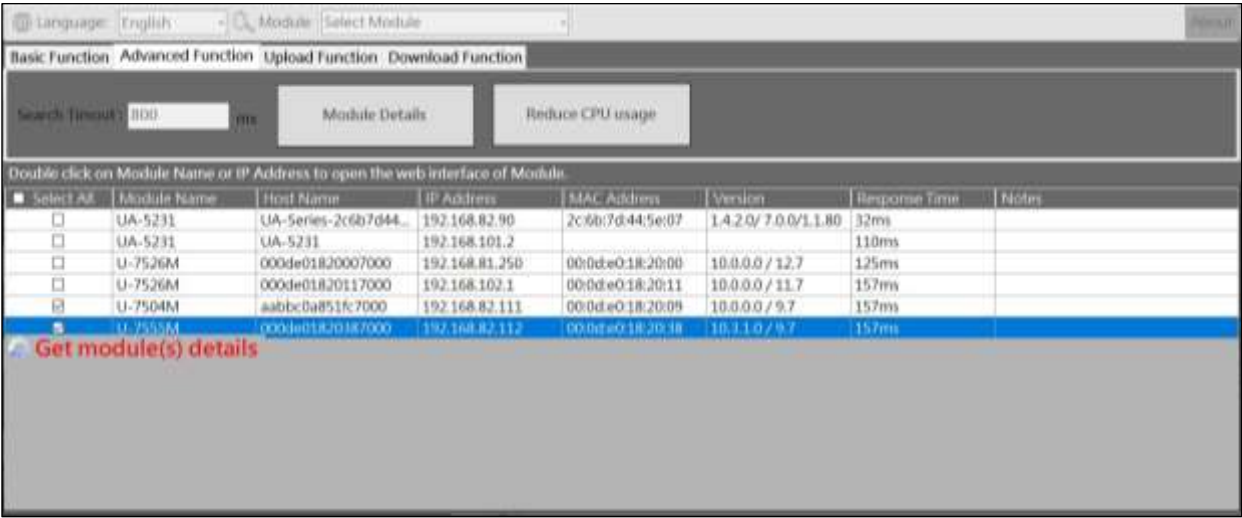
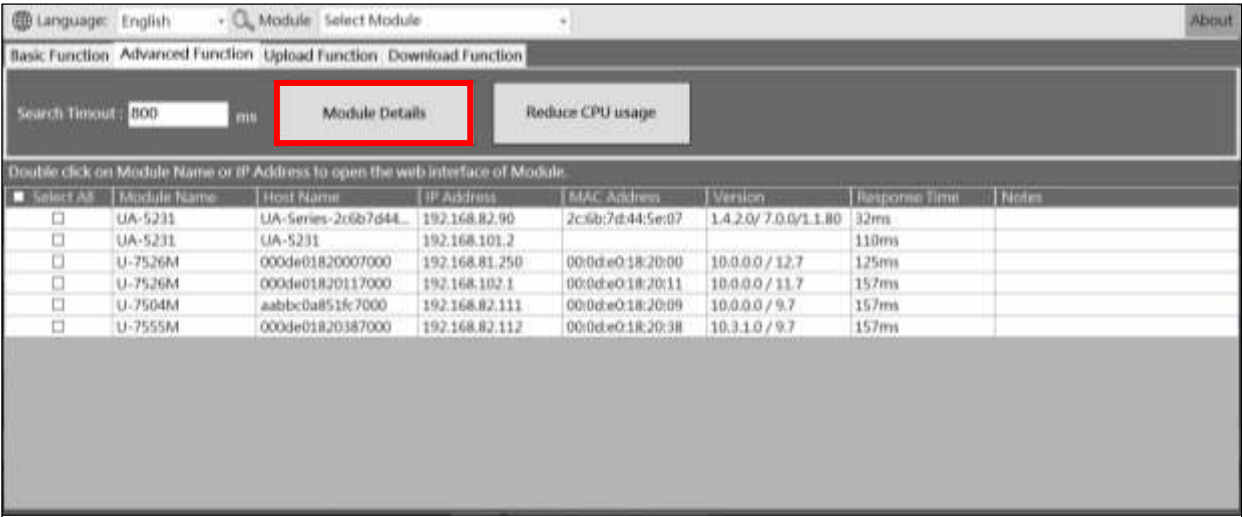
This parameter is used for users to set while in the complicated network environment and with lower network speed. Default setting is 800ms, maximum is 30000ms and minimum is 500ms. If the search quantity is always different in numbers, we'll suggest to set the Search Timeout for higher time range.



➤ **Module Details**

[Module Details]: Select module checkbox to look over the module details.

Details shows the TCP/UDP Internet Protocols, the occupied protocols include HTTP, HTTPS, OPCUA, and etc of this module. Port number and detail information of these modules provide IT personnel a method to manage internet security in the field. On the other hand, for OT personnel can provide the information to IT while there is error connects between modules and SCADA.



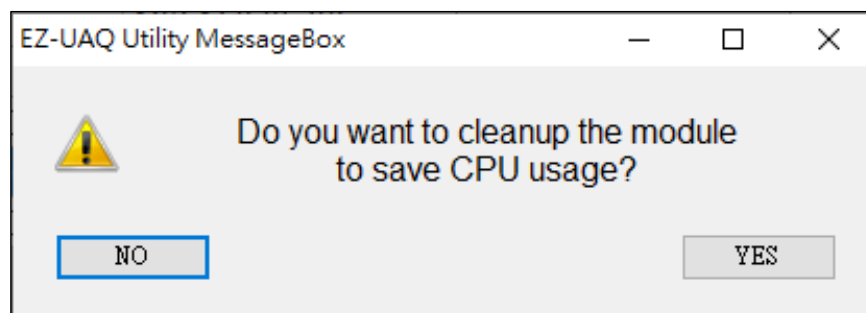
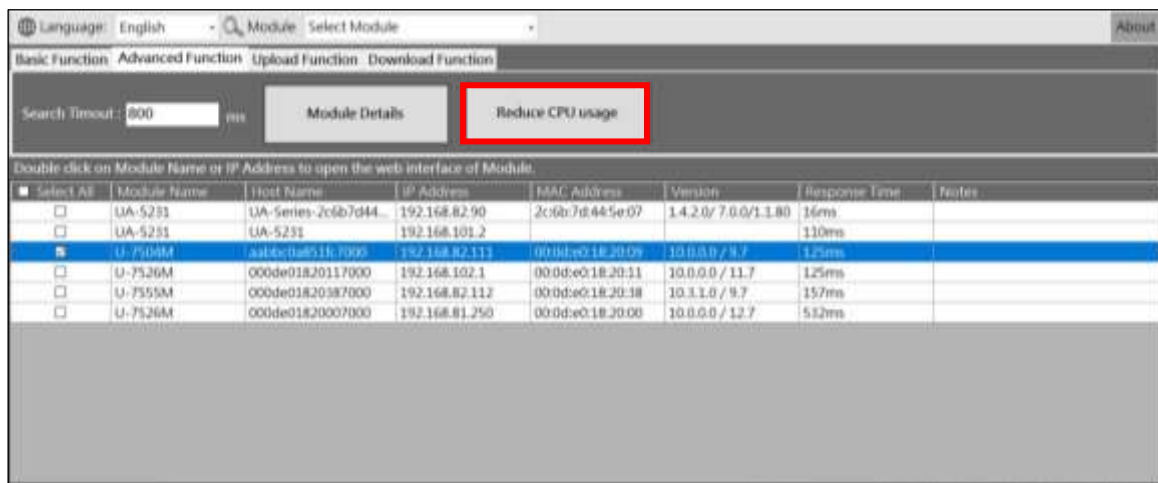
➤ **Reduce CPU usage**

*** Warnings: To increase the level of information security, activating this function needs to first set the password in the module. If users would not set the password, the activating will use the default password which will be in higher risk. We suggest to use same password for the same series of modules.**

[Reduce CPU usage]: While module CPU is in high usage, click the [Reduce CPU usage] button to pop-up a dialog box to make sure if user confirm to perform this action. To continue this action requires a user password. This function will turn off some function of the module, detail list please refer to following table:

Series Name	Turn-off Functions	Restore turn-off function
UA	(Run Project) MQTT Broker	There are instructions in the communication server manual for reactivating closed functions via the web page.
UA I/O	OPC UA Client IoTstar Setting Event log	Need to restart to restore

Step1: Please check the module first, and then click the [Reduce CPU Usage] button. The window shown in Figure 1 will appear. Please click Yes.

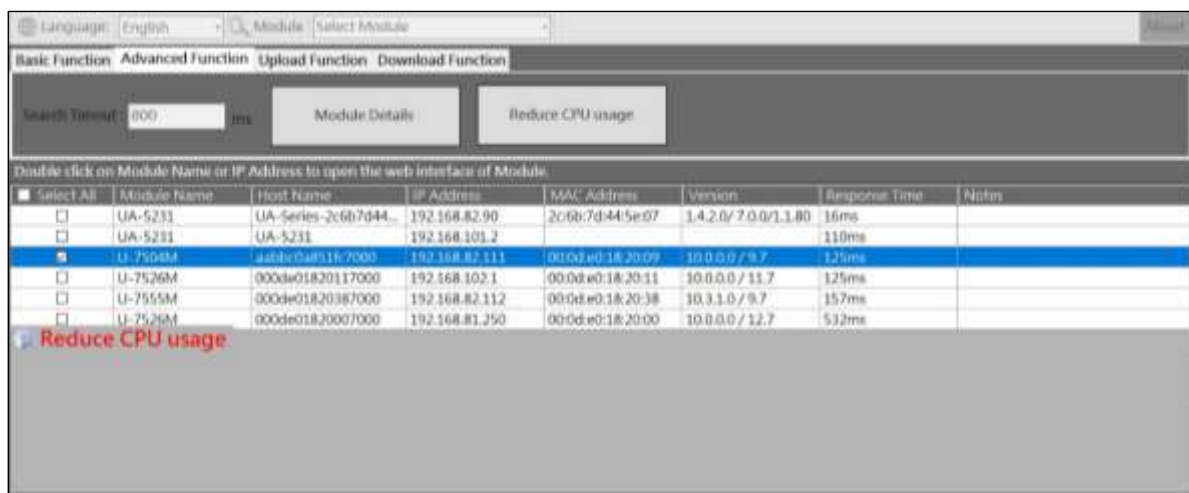
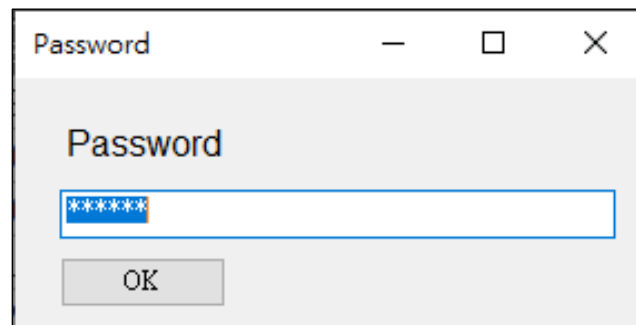


(Figure1)

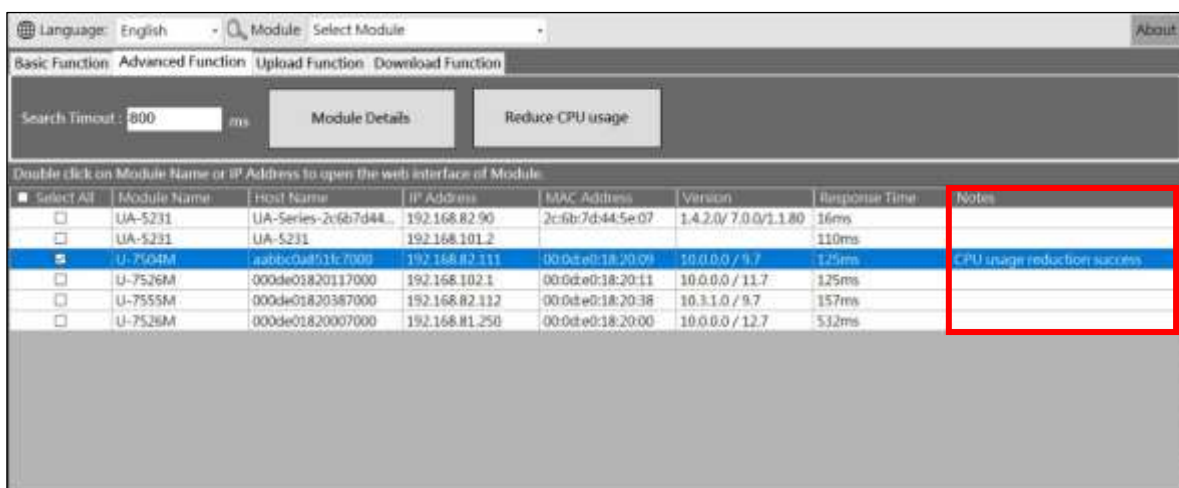
About password settings, please refer to Appendix C: Password Settings which describes how to setup EZ-UAQ Utility password of modules.

If users make progress of "Reduce CPU Usage" without setting password, System will generate a default password for users to quickly finish the cleanups. We highly recommend users to change the password and as previously mentioned, we suggest to set the same password for the same series of products to quickly activate multiple modules at a time.

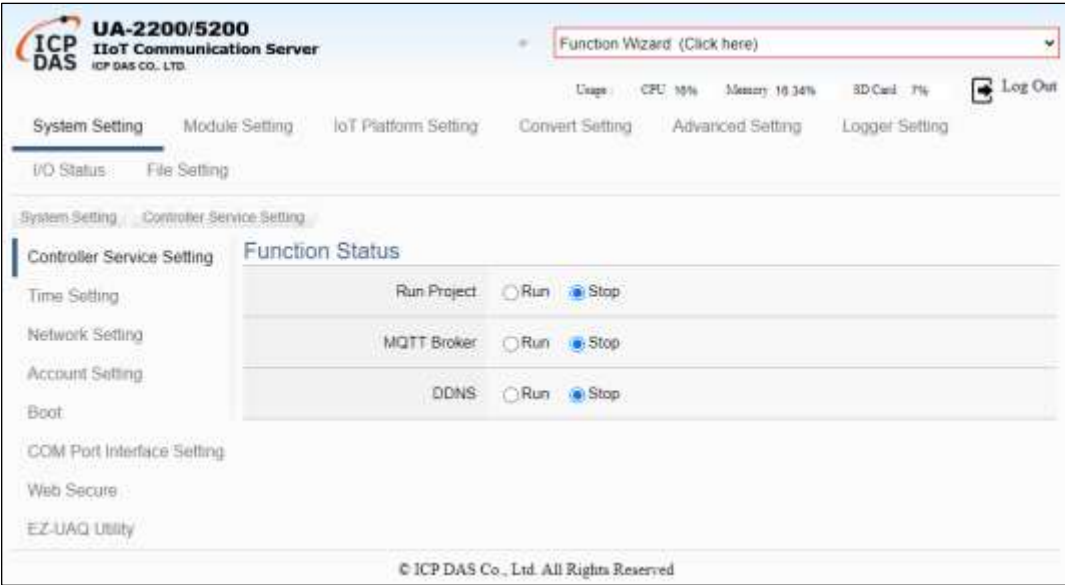
Step2: In the Password window, please enter the EZ-UAQ Utility password set in the module, and then click OK. The interface will display "**Reduce CPU usage**", indicating that the operation has started.



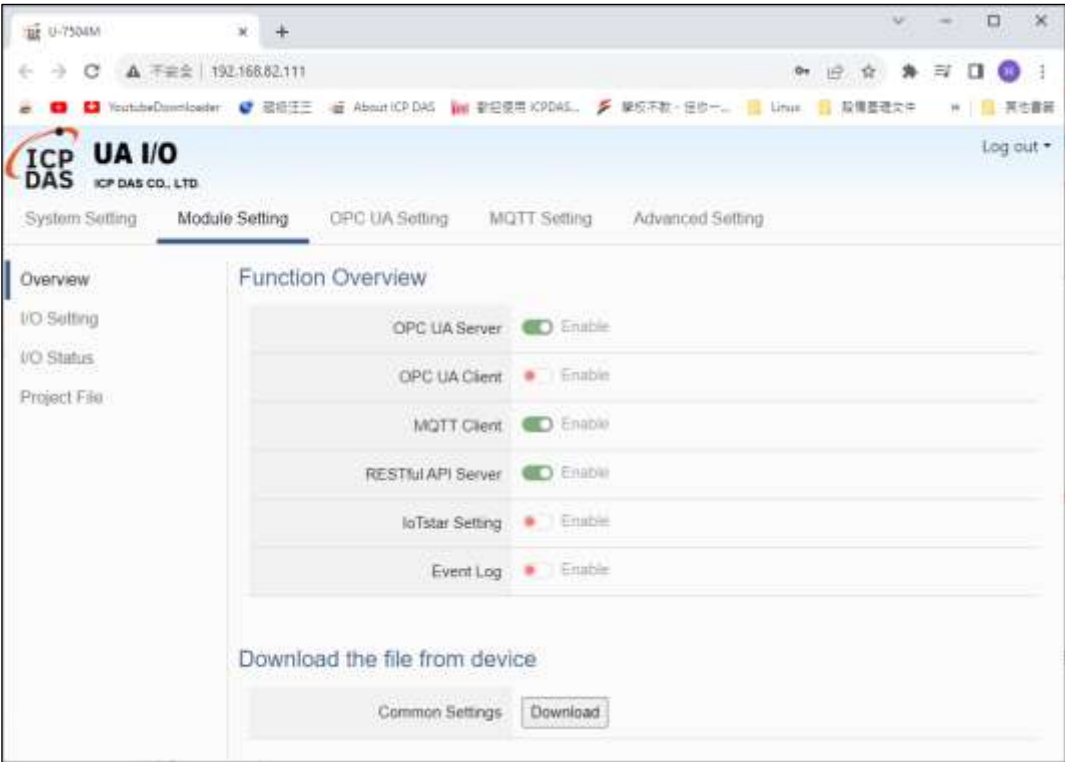
Step3: When the CPU usage is successfully reduced, the words "CPU usage reduction success" will be displayed in the [Notes] of the selected module.



The picture below shows the UA communication server web interface. After reducing the CPU usage, you can know which functions are turned off.



The picture below shows the UA I/O module web interface. After reducing the CPU usage, you can know which functions are turned off.



5.2.3 Upload Function

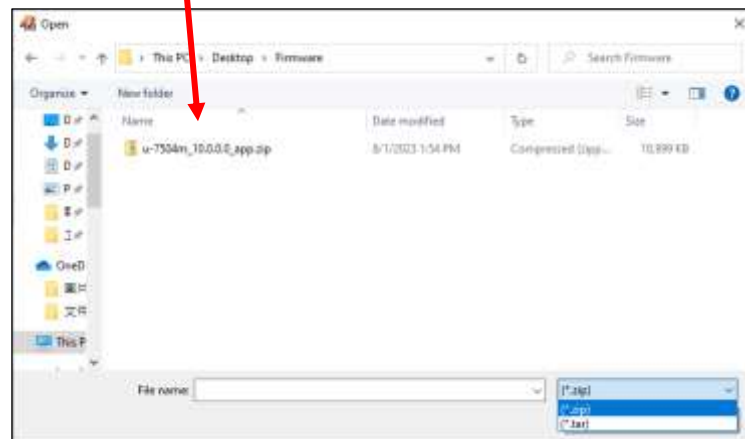
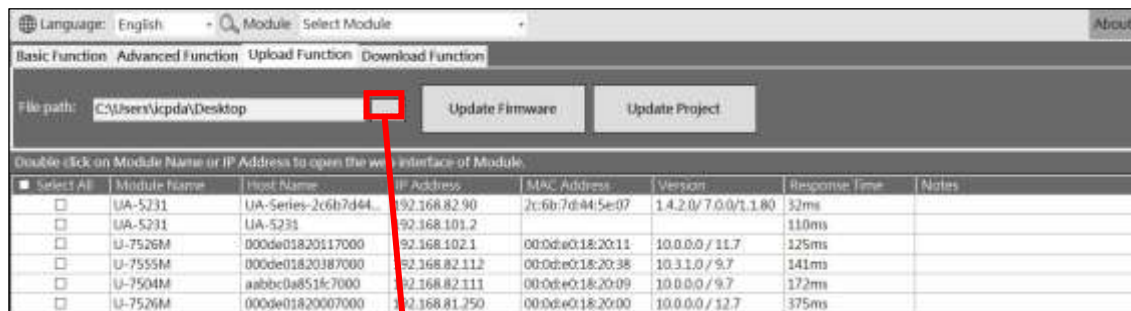
*** Note:** When using the Upload function, must be the same series if multiple modules are downloaded at the same time.

*** Warnings:** To increase the level of information security, activating this function needs to first set the password in the module. If users would not set the password, the activating will use the default password which will be in higher risk. We suggest to use same password for the same series of modules.

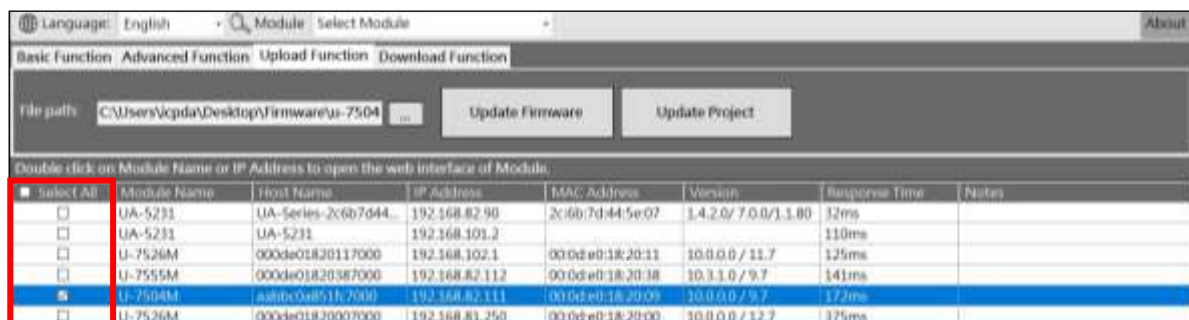
➤ Update Firmware

Users can use the "Update Firmware" function to update the firmware of multiple UA Communication Server, UA-I/O, and BRK modules in batches. The following screen shows the process of updating a single U-7504M module:

Step1: Click [...] to select the firmware package you want to update. The image below shows the file extension of the package.

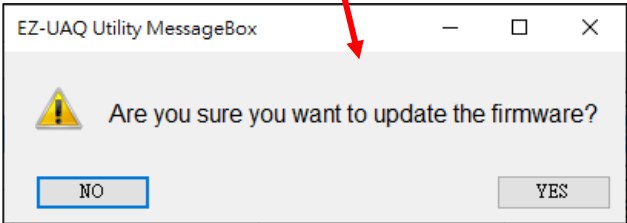
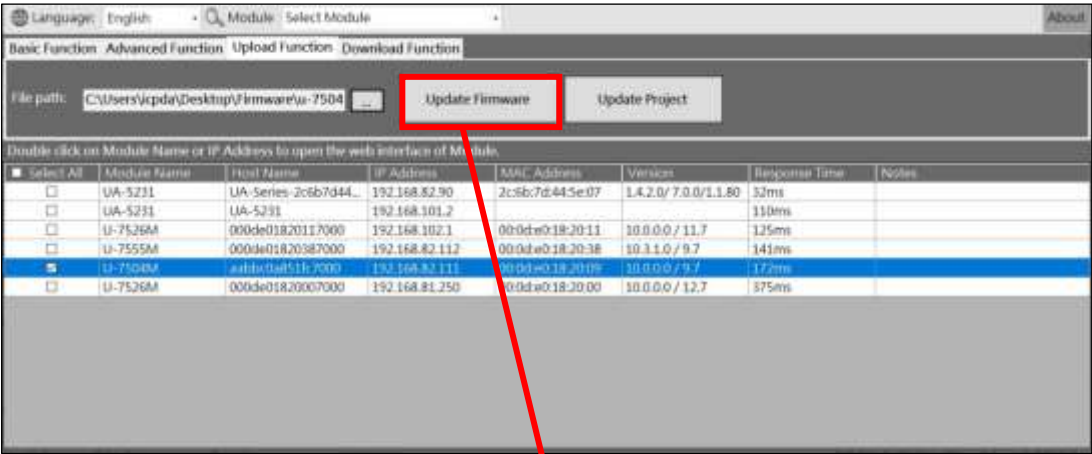


Step2: After selecting the file, check the module you want to update.



Step3: Click the [Update Firmware] button, and two prompt boxes will pop-up, as shown in Figure 1 and Figure 2 below to make sure it is not an operation error. After clicking YES, the Password window will pop up. Please enter the EZ-UAQ Utility password set in the module, and then click OK. The interface will display **"Updating the module(s) firmware, please wait"**, indicating that the update operation has begun. For previously released UA I/O modules can be updated through the new EZ-UAQ Utility, following table has operating instructions and comparison versions:

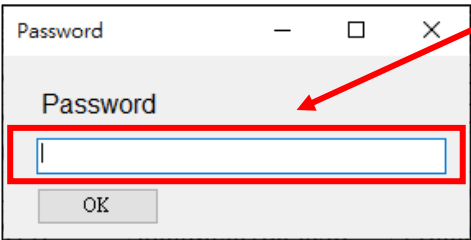
UA I/O firmware before V13.8	UA I/O firmware after V13.8 (inclusive)
Deleting the default password will activate the old firmware update method. After the module is updated, the new version of the module cannot be used, as shown in Figure 3a.	A window will pop up for the user to enter the password set by the module, as shown in Figure 3b.



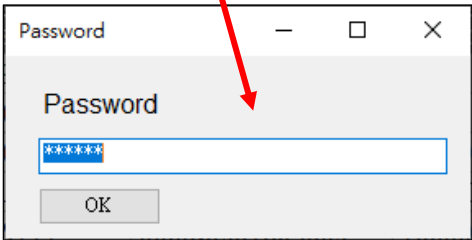
(Figure 1)



(Figure 2)



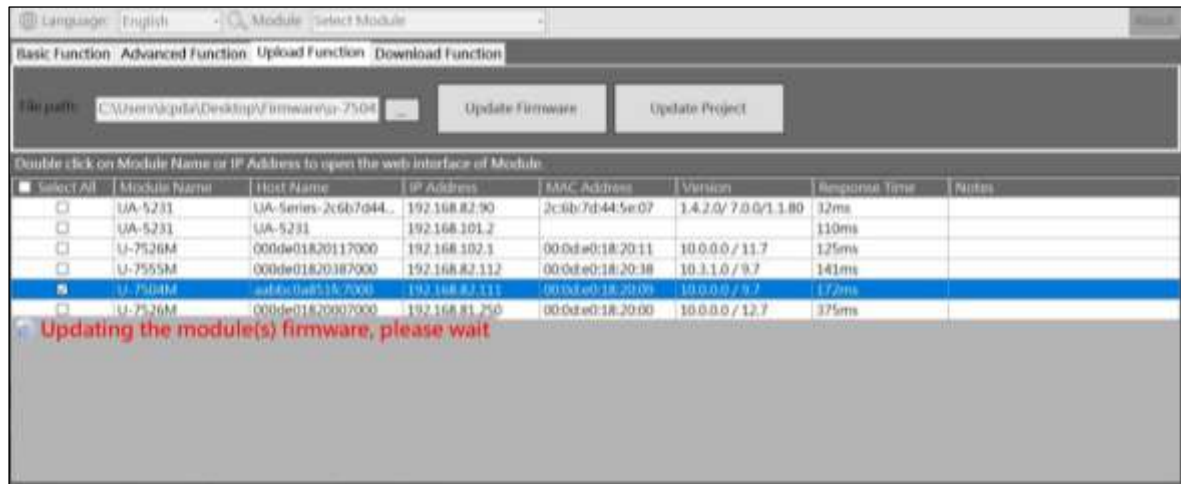
(Figure 3a)



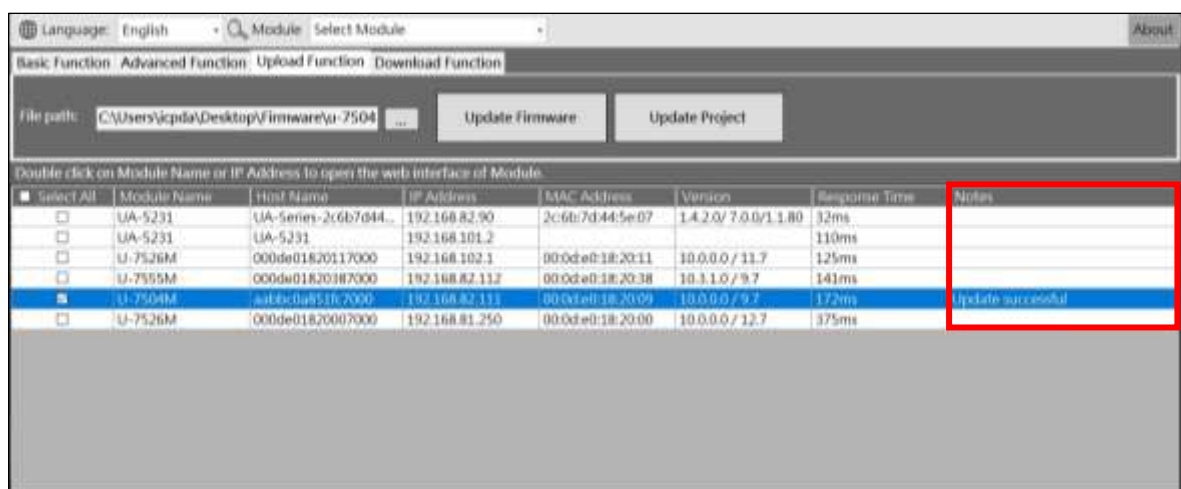
(Figure 3b)

About password settings, please refer to Appendix C: Password Settings which describes how to setup EZ-UAQ Utility password of modules.

If users make progress of “Update Firmware” without setting password, System will show a default password for users to quickly finish the updates. We highly recommend users to change the password and as previously mentioned, we suggest to set the same password for the same series of products to quickly activate multiple modules at a time.



Step4: When the update is successful, the words "Update successful" will be displayed in the [Notes] of the selected module.

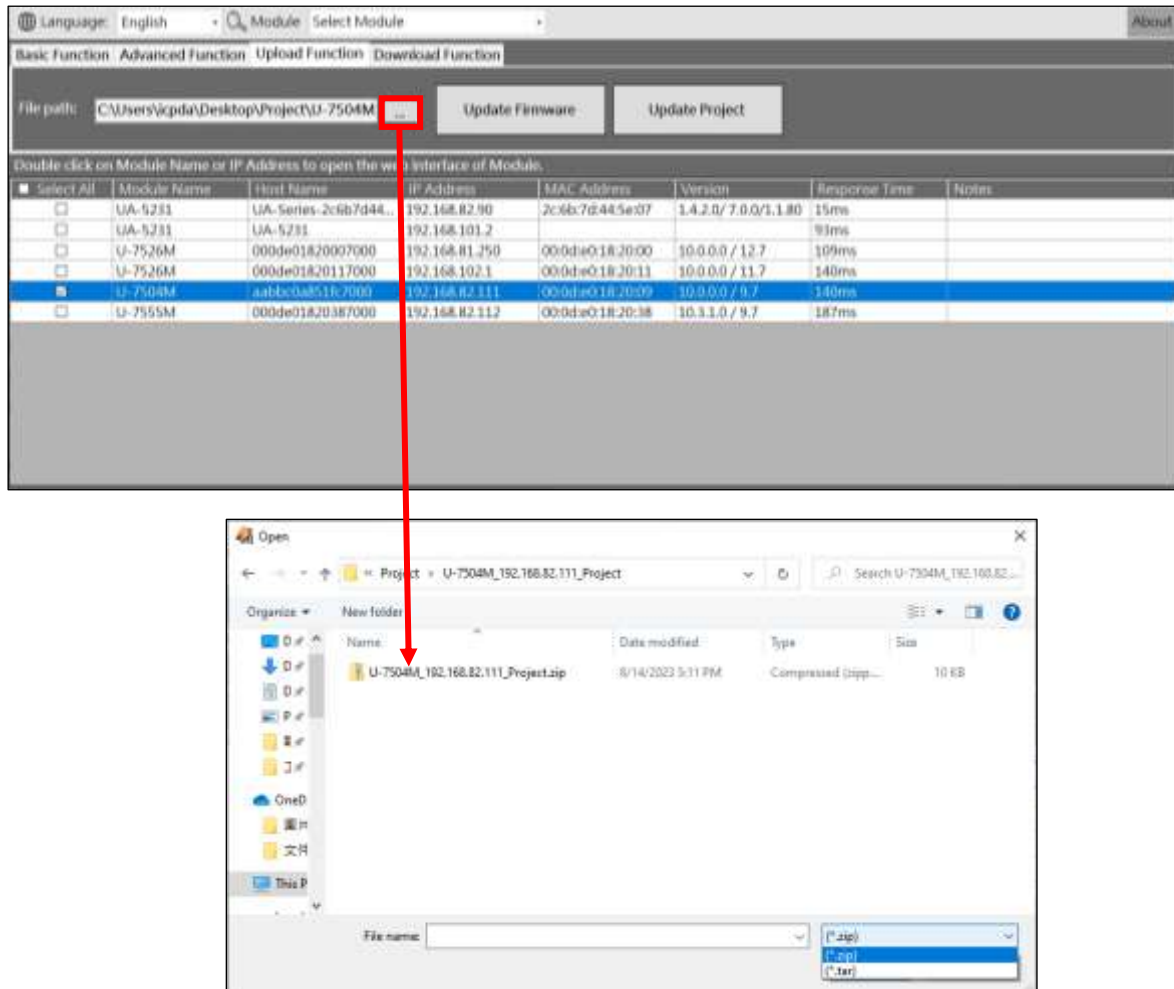


***Note:** If a warning message box pops up or [Notes] displays a warning message (refer to [6. Warning message](#))

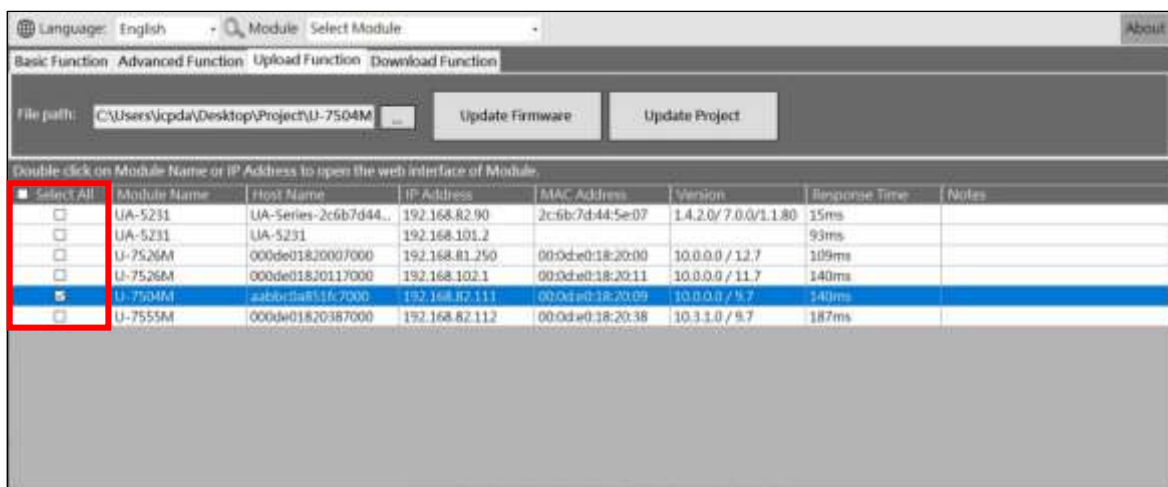
➤ Update Project

Users can use the "Update Project" function to update the Project of multiple UA Communication Server, UA-I/O, and BRK modules in batches. The following screen shows the process of updating a single U-7504M module:

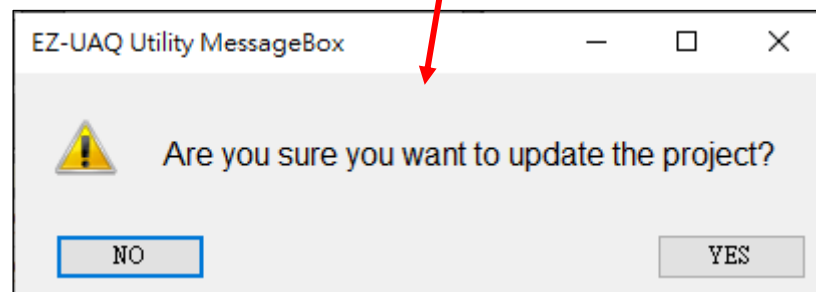
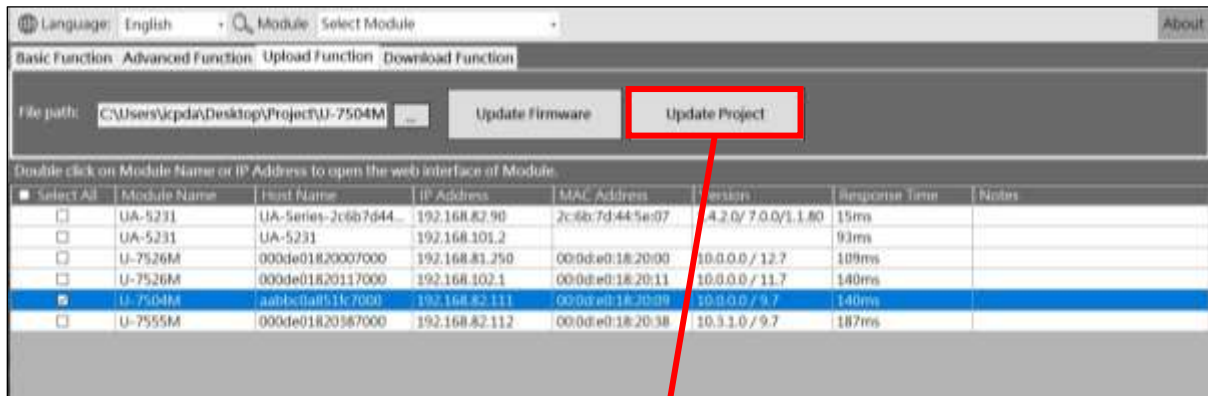
Step1: Click [...] to select the Project file you want to update. The image below shows the file extension of the Project file.



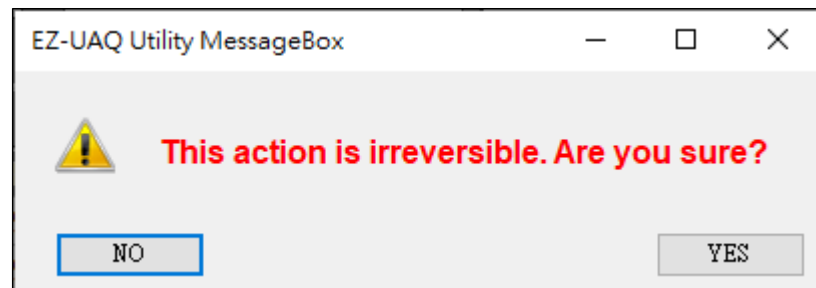
Step2: After selecting the file, check the module you want to update.



Step3: Click the [Update Project] button, two prompt boxes will pop up asking, as shown in Figure 1 and Figure 2 below. Make sure it is not an operation error, then click YES, the Password window will pop up, please enter the EZ-UAQ Utility set in the module Password, and then press OK, the interface will display "**Updating the module(s) project, please wait**", indicating that the update action has begun.



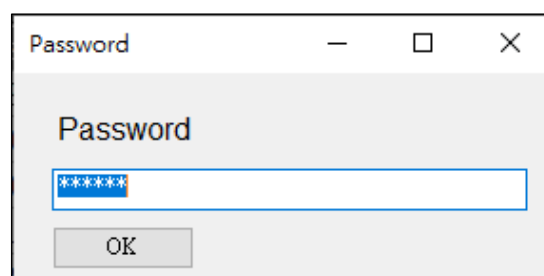
(Figure1)

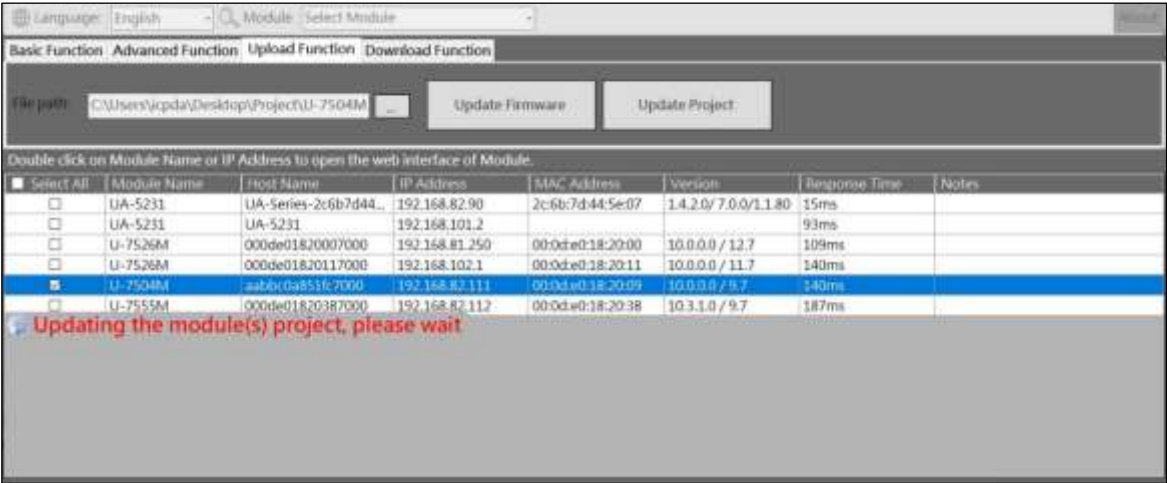


((Figure2))

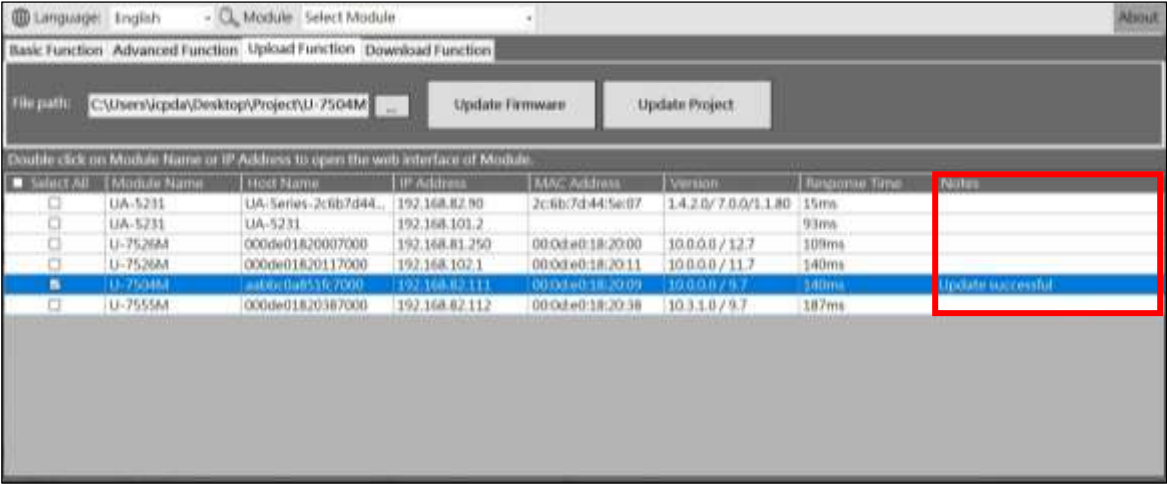
About password settings, please refer to Appendix C: Password Settings which describes how to setup EZ-UAQ Utility password of modules.

If users make progress of "Update Project" without setting password, System will show a default password for users to quickly finish the updates. We highly recommend users to change the password and as previously mentioned, we suggest to set the same password for the same series of products to quickly activate multiple modules at a time.





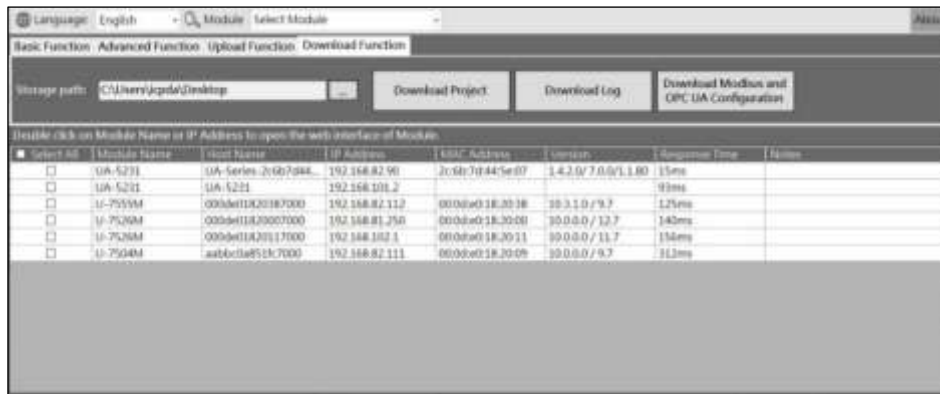
Step4: When the update is successful, the words "Update successful" will be displayed in the [Notes] of the selected module.



***Note:** If a warning message box pops up or [Notes] displays a warning message (refer to [6. Warning message](#))

5.2.4 Download Function

*** Note: When using the Download function, must be the same series if multiple modules are downloaded at the same time.**



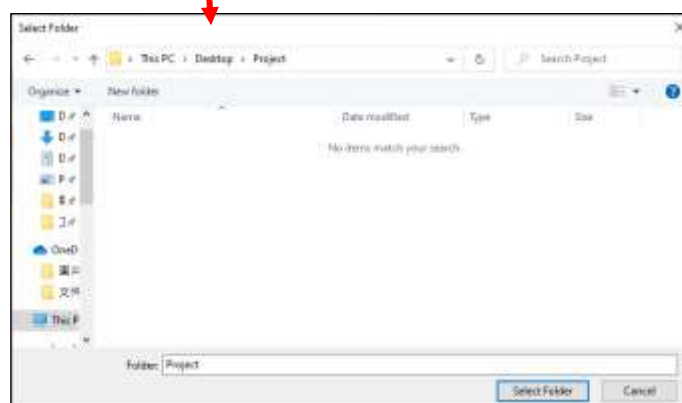
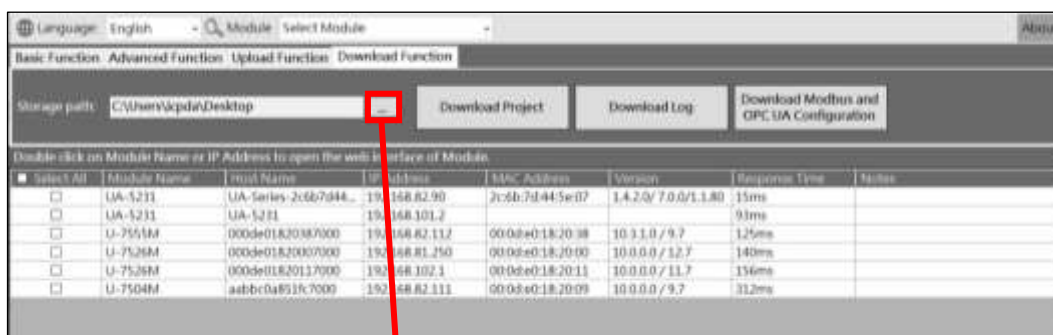
If the storage folder is not selected, the downloaded file will be placed in the default location on the desktop when performing the download function.

➤ Download Project

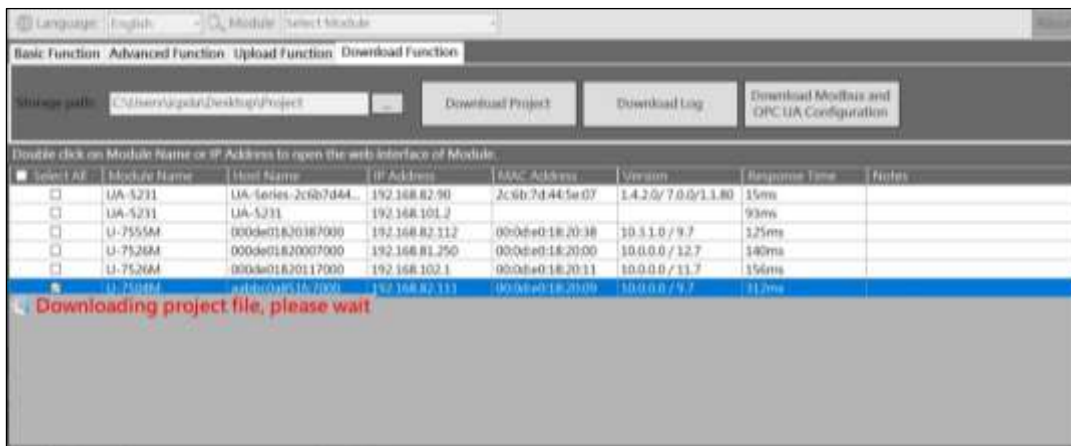
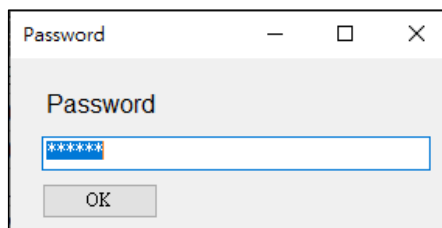
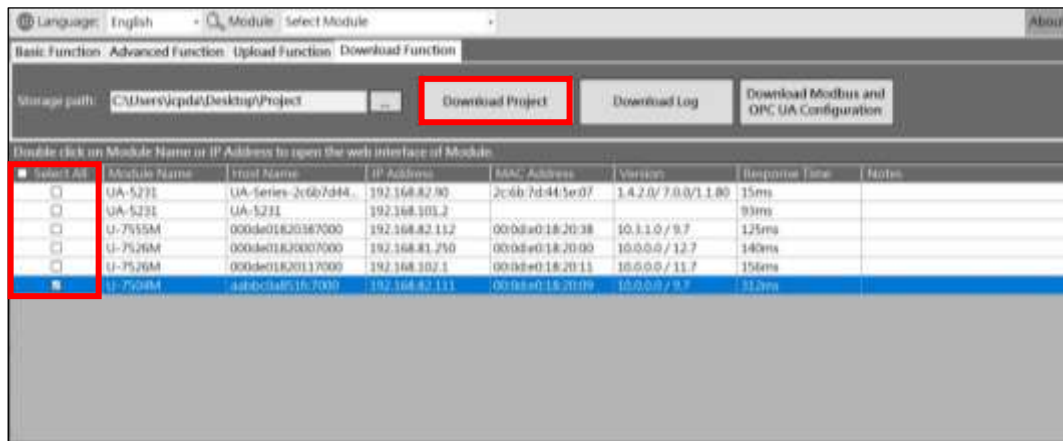
Warnings: To increase the level of information security, activating this function needs to first set the password in the module. If users would not set the password, the activating will use the default password which will be in higher risk. We suggest to use same password for the same series of modules.

Users can use the "Download Project" function to Download the Project of multiple UA Communication Server, UA-I/O, and BRK modules in batches. The following screen shows the process of Downloading a single U-7504M module:

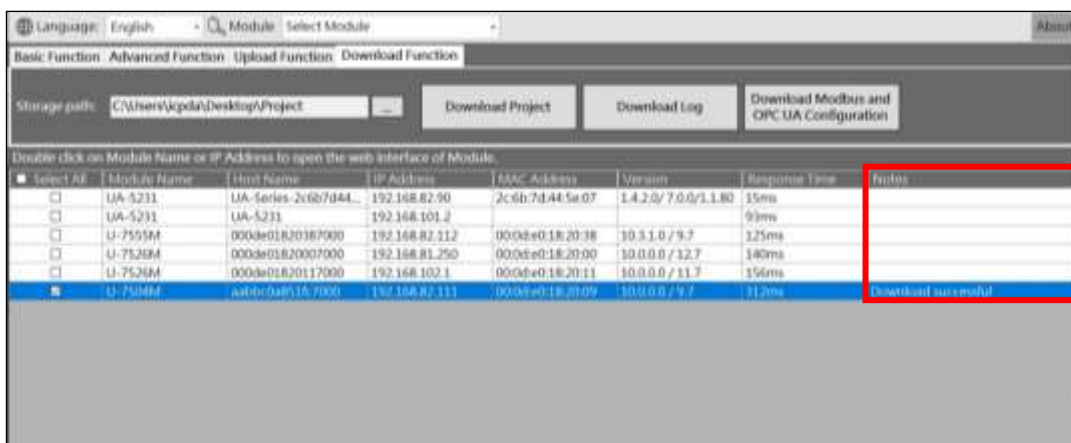
Step1: Click [...] to select the Project file you want to download. The image below shows the file extension of the Project file.



Step2: Please check the module you want to download, and then click the [Download Project] button. The Password window will pop up. Please enter the EZ-UAQ Utility password set in the module, and then click OK. The interface will display "**Downloading project file, please "wait"**" means starting the download action.



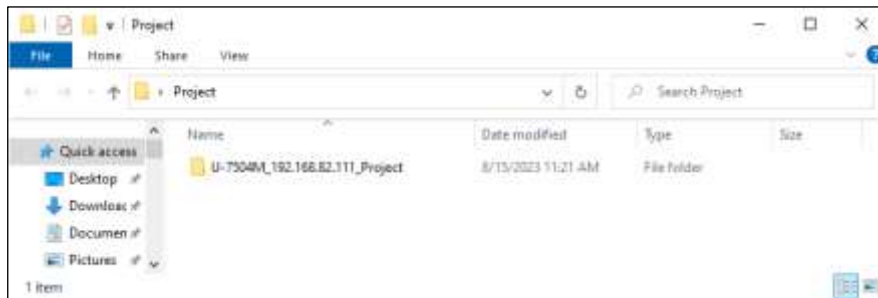
Step3: When the download is successful, the words "Download successful" will be displayed in the [Notes] column of the selected module.



Step4: The following figure shows the downloaded files and the storage folder.

When the software is downloaded, the project file folder and compressed file will be created with "Module Name_IP_Project".

The compressed files in the project are password protected (please enter the EZ-UAQ Utility password set in the module).

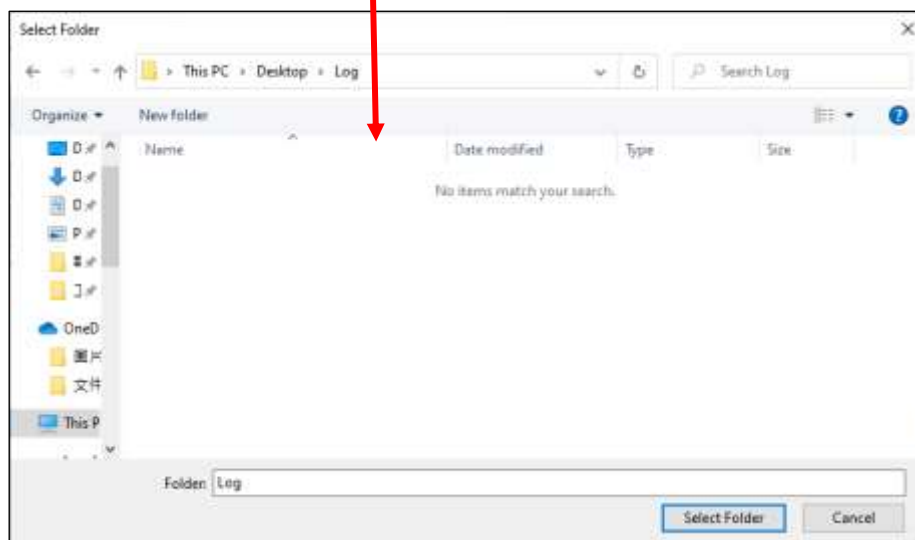
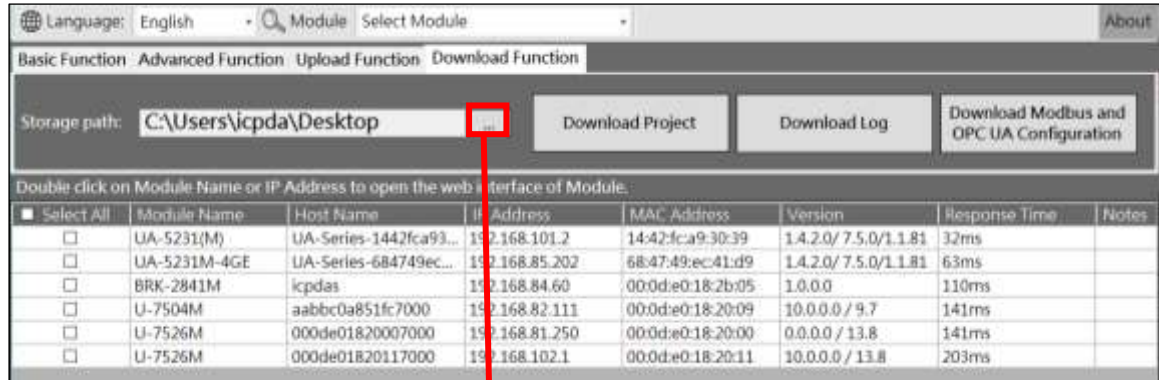


***Note:** If a warning message box pops up or [Notes] displays a warning message (refer to [6. Warning message](#))

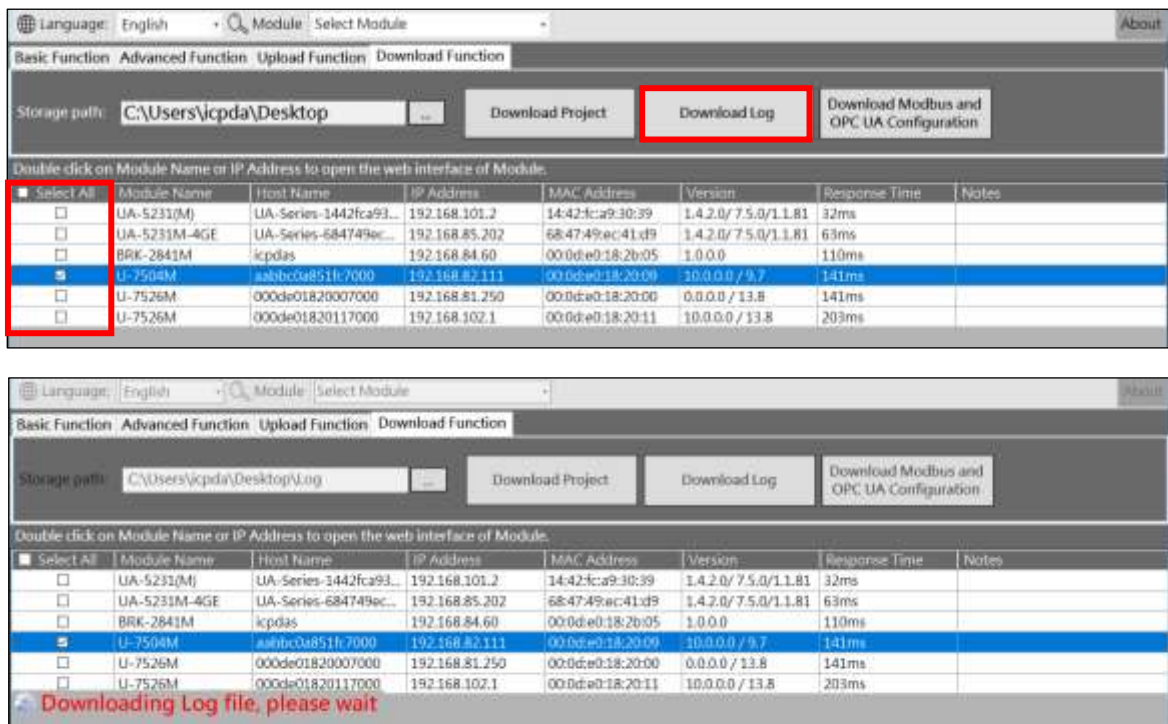
➤ Download Log

Users can use the "Download Log" function to Download the Log of multiple UA Communication Server, UA-I/O, and BRK modules in batches. The following screen shows the process of Downloading a single U-7504M module:

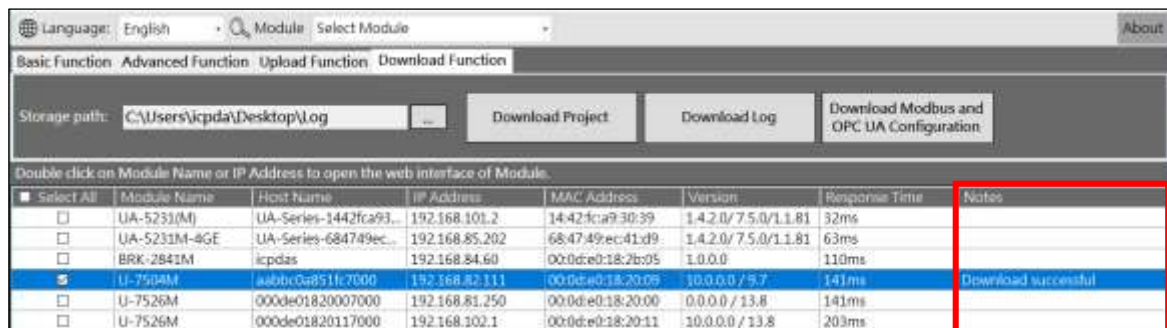
Step1: Click [...] to select the Log file you want to download. The image below shows the file extension of the Project file.



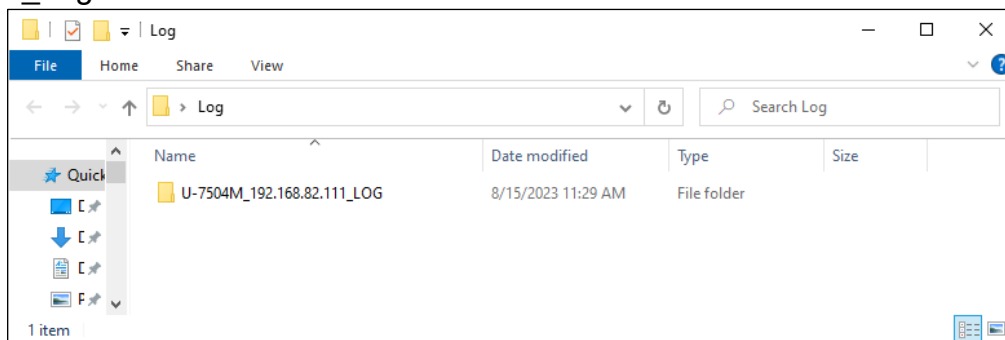
Step2: Please check the module that needs to be downloaded, and then click the [Download Log] button. The interface will display "Downloading Log file, please wait", indicating that the download action has started.



Step3: When the download is successful, the words "Download successful" will be displayed in the [Notes] column of the selected module.



Step4: The following figure shows the downloaded files and the storage folder.. When the software is downloaded, a Log file folder will be created with "Module Name_IP_Log".



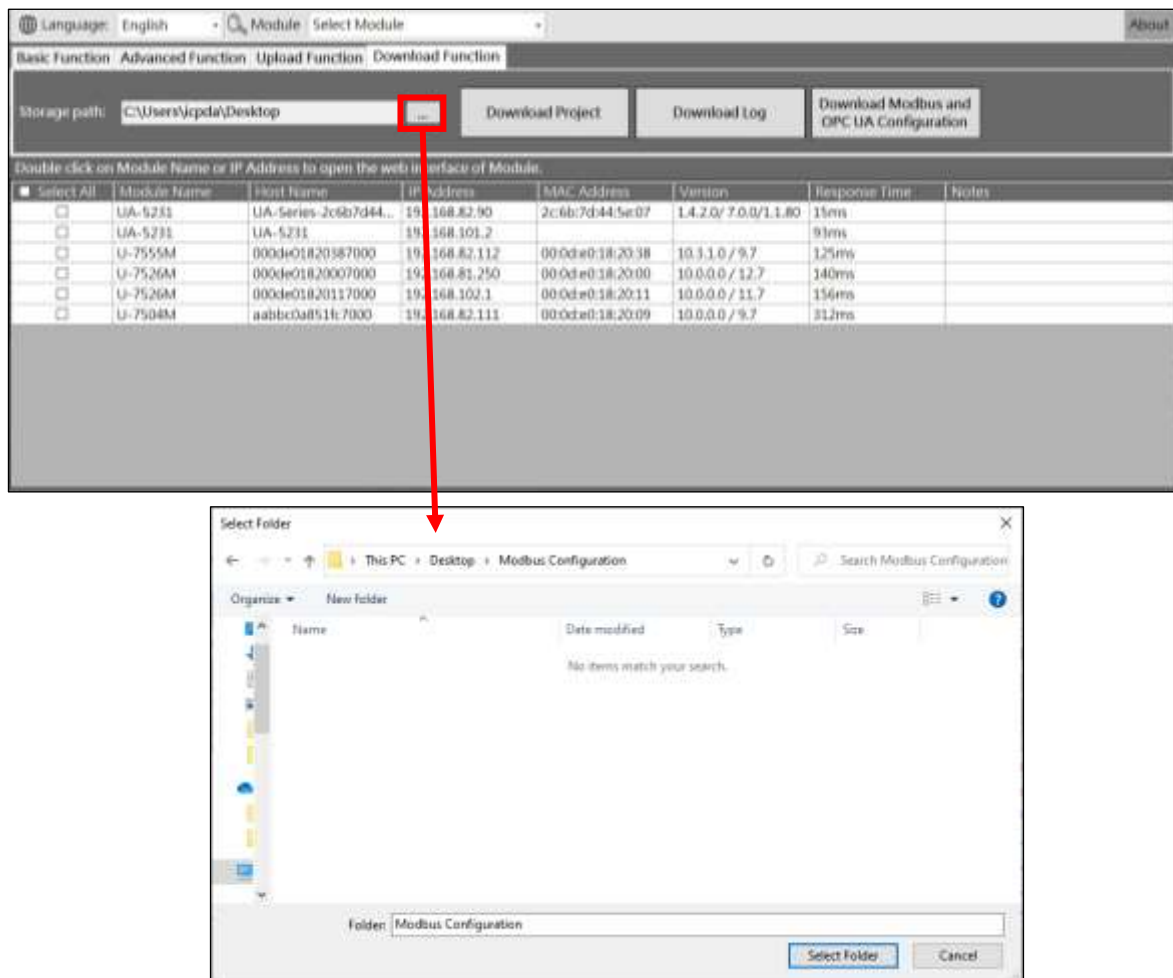
***Note:** If a warning message box pops up or [Notes] displays a warning message (refer to [6. Warning message](#))

➤ Download Modbus and OPC UA Configuration

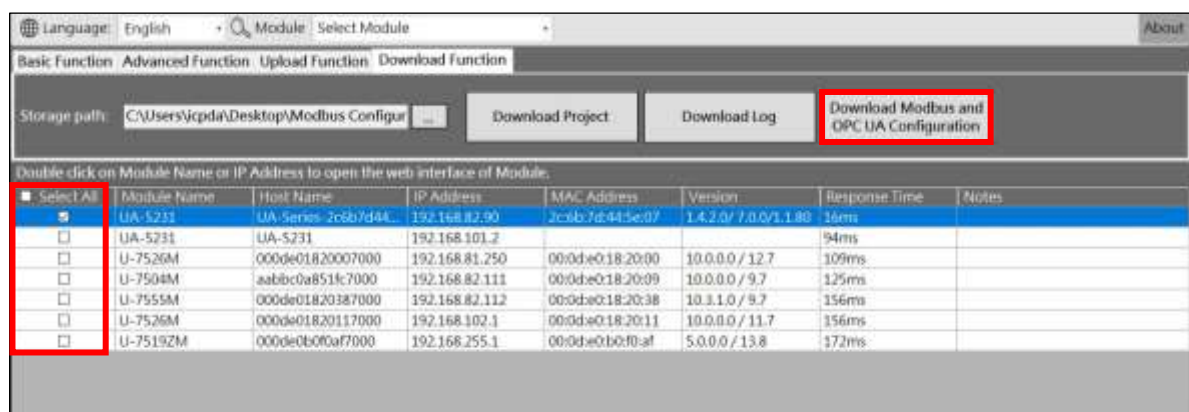
***Note: This function can only be used by UA communication server**

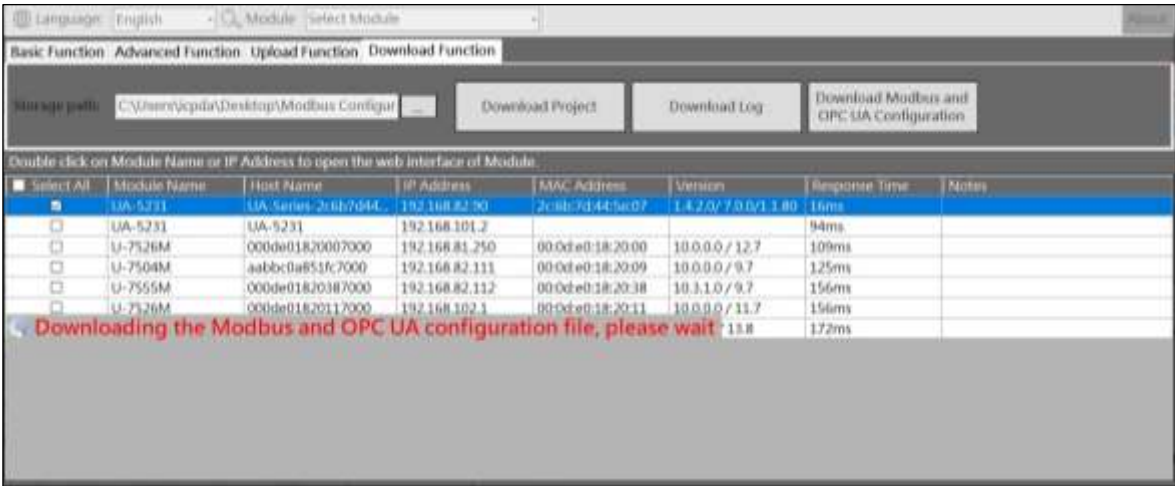
Using the [Download Modbus and OPC UA Configuration] function allows users to quickly understand the Modbus of UA communication server and OPC UA information such as TCP, RTU, Module Name and OPC UA Node ID,... etc.

Step1: When users download Modbus and OPC UA Configuration, please click [] to select the storage folder.

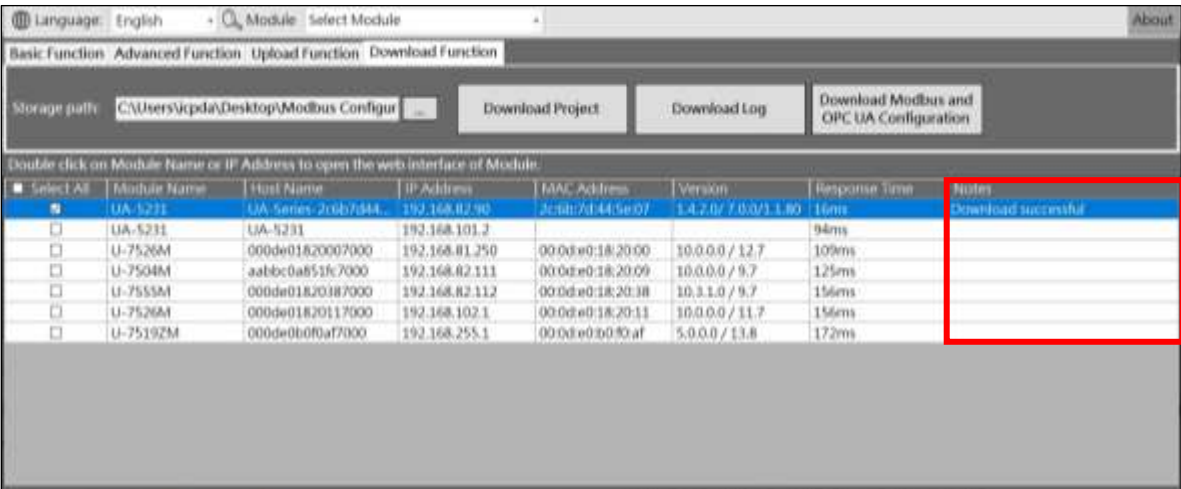


Step2: Please select the module first, and then click the [**Download Modbus and OPC UA Configuration**] button. The interface will display "Downloading the Modbus and OPC UA Configuration file, please wait", indicating that the download action has started.

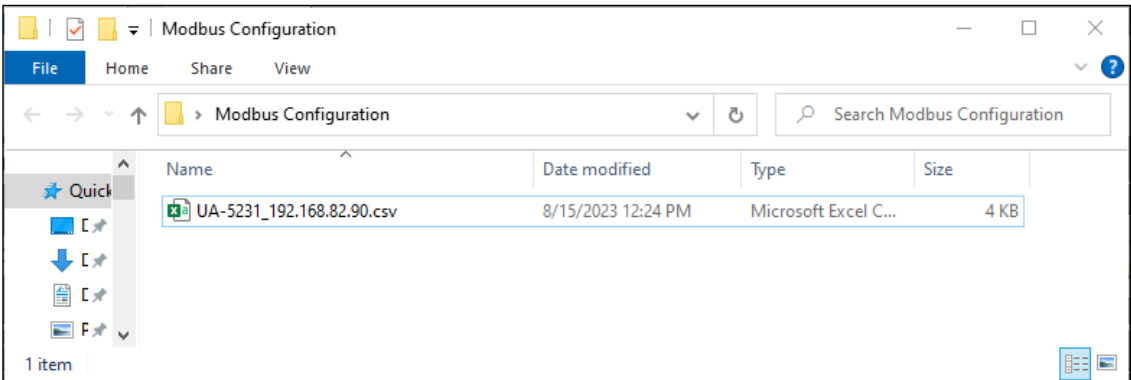




Step3: When the download is successful, the words "Download Successfully" will be displayed in the [Notes] column of the selected module.



Step4: The following figure shows the downloaded files and the storage folder, When the software is downloaded, a file will be created with "module name_IP.csv".



***Note:** If a warning message box pops up or [Notes] displays a warning message (refer to [6. Warning message](#))

5.3 Display Area

It can display Module Name, Host Name, IP Address, MAC Address, firmware version, product response time when searching, comments and other information, and has the functions of setting hidden/show fields, sorting, opening module setting webpage, etc... .

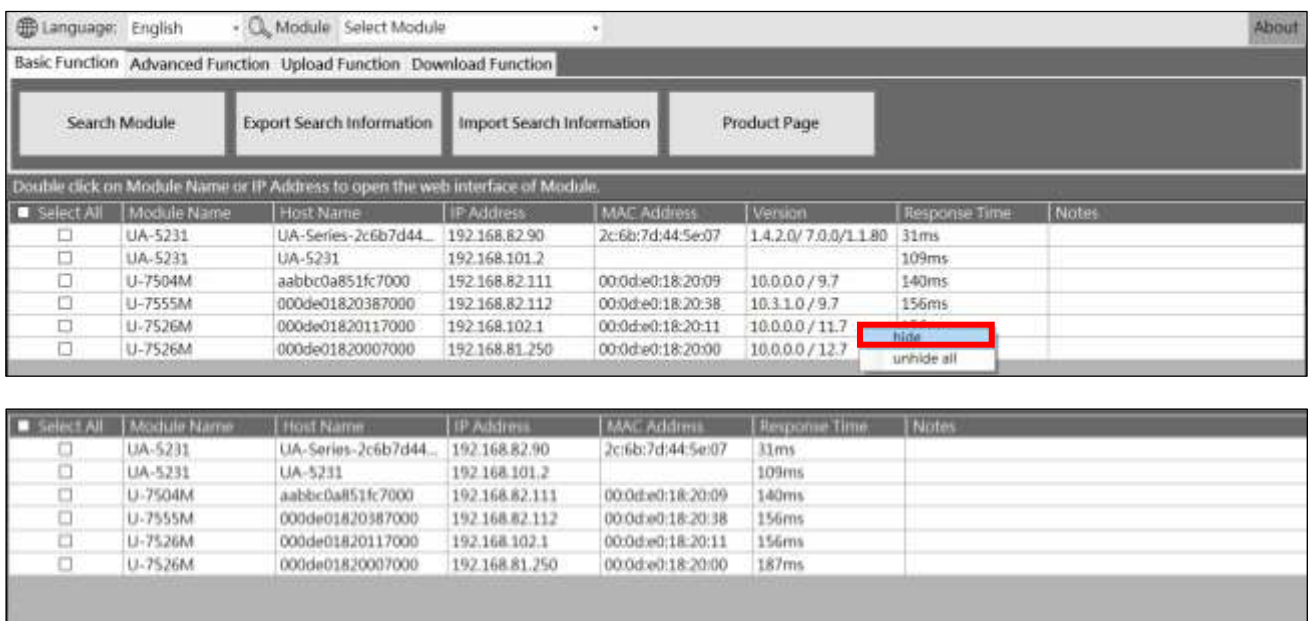
■ Select All	Module Name	Host Name	IP Address	MAC Address	Version	Response Time	Notes
<input type="checkbox"/>	UA-5231	UA-Series-2c6b7d44...	192.168.82.90	2c:6b:7d:44:5e:07	1.4.2.0 / 7.0.0/1.1.80	32ms	
<input type="checkbox"/>	UA-2241	UA-2241	192.168.1.90			204ms	
<input type="checkbox"/>	UA-5231	UA-5231	192.168.101.2			219ms	
<input type="checkbox"/>	U-7560M	000de01820337000	192.168.81.150	00:0d:e0:18:20:33	0.0.0.0 / 11.7	219ms	
<input type="checkbox"/>	U-7504M	aabbc0a851fc7000	192.168.82.111	00:0d:e0:18:20:09	10.0.0.0 / 9.7	219ms	
<input type="checkbox"/>	U-7526M	000de01820117000	192.168.102.1	00:0d:e0:18:20:11	10.0.0.0 / 11.7	266ms	

Module Name: Displays the name of the module shell.

Host Name: The Host Name can be obtained on the EZ-UAQ Utility. In terms of the OPC UA protocol, for example, when using UaExpert and graphics control software, the software will display the Host Name of the module connected to it, allowing the user to confirm the software. Whether the connected module is correct or not.

➤ 【hide/unhide all】

When there is too much information in the display area, use the [hide] function to hide the unimportant fields and then use the [unhide all] function to display all the information. if you want to hide the [Version] field please use the mouse to right-click on any position in the [Version] field, then [hide] and [unhide all] will appear. Click [hide] to hide the [Version]. Field.



Language: English Module: Select Module About

Basic Function Advanced Function Upload Function Download Function

Search Module Export Search Information Import Search Information Product Page

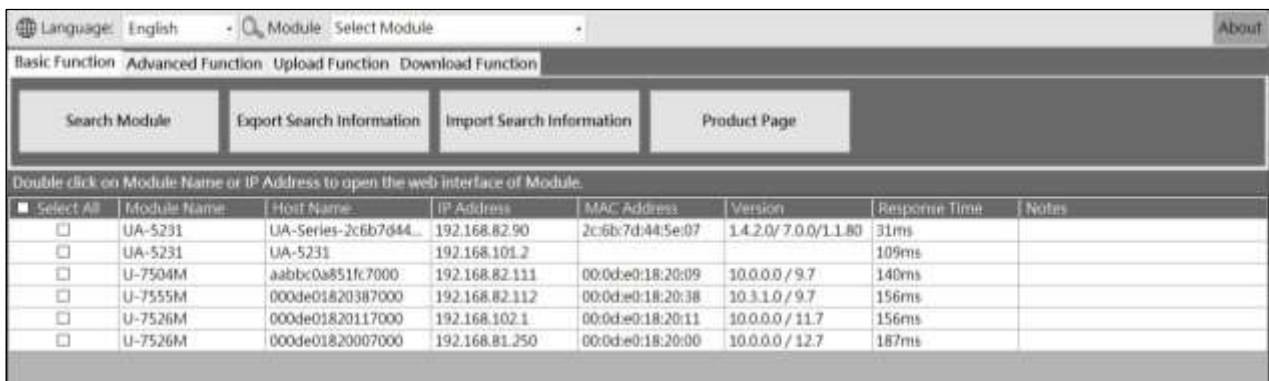
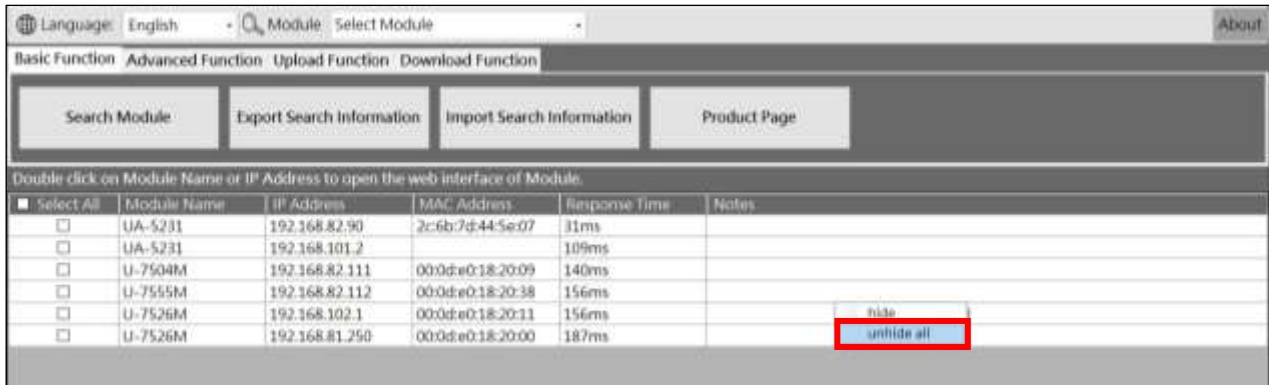
Double click on Module Name or IP Address to open the web interface of Module.

■ Select All	Module Name	Host Name	IP Address	MAC Address	Version	Response Time	Notes
<input type="checkbox"/>	UA-5231	UA-Series-2c6b7d44...	192.168.82.90	2c:6b:7d:44:5e:07	1.4.2.0 / 7.0.0/1.1.80	31ms	
<input type="checkbox"/>	UA-5231	UA-5231	192.168.101.2			109ms	
<input type="checkbox"/>	U-7504M	aabbc0a851fc7000	192.168.82.111	00:0d:e0:18:20:09	10.0.0.0 / 9.7	140ms	
<input type="checkbox"/>	U-7555M	000de01820387000	192.168.82.112	00:0d:e0:18:20:38	10.3.1.0 / 9.7	156ms	
<input type="checkbox"/>	U-7526M	000de01820117000	192.168.102.1	00:0d:e0:18:20:11	10.0.0.0 / 11.7	156ms	
<input type="checkbox"/>	U-7526M	000de01820007000	192.168.81.250	00:0d:e0:18:20:00	10.0.0.0 / 12.7	187ms	

hide
unhide all

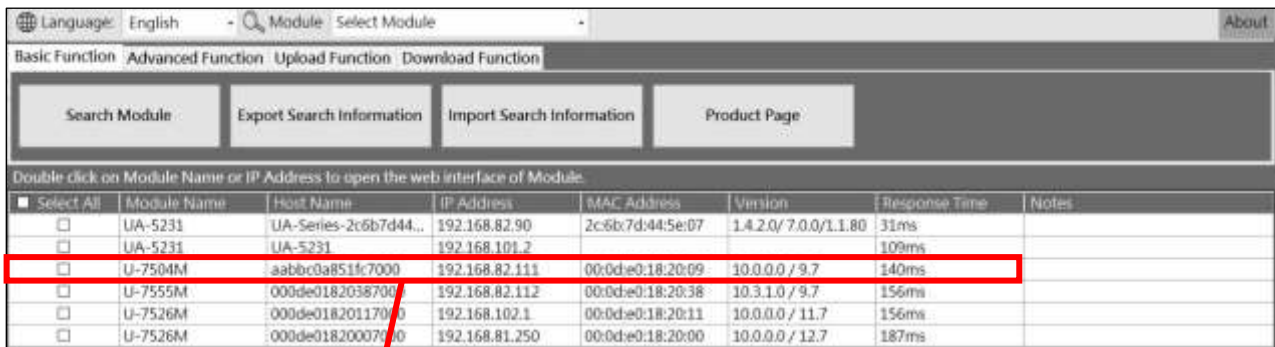
■ Select All	Module Name	Host Name	IP Address	MAC Address	Response Time	Notes
<input type="checkbox"/>	UA-5231	UA-Series-2c6b7d44...	192.168.82.90	2c:6b:7d:44:5e:07	31ms	
<input type="checkbox"/>	UA-5231	UA-5231	192.168.101.2		109ms	
<input type="checkbox"/>	U-7504M	aabbc0a851fc7000	192.168.82.111	00:0d:e0:18:20:09	140ms	
<input type="checkbox"/>	U-7555M	000de01820387000	192.168.82.112	00:0d:e0:18:20:38	156ms	
<input type="checkbox"/>	U-7526M	000de01820117000	192.168.102.1	00:0d:e0:18:20:11	156ms	
<input type="checkbox"/>	U-7526M	000de01820007000	192.168.81.250	00:0d:e0:18:20:00	187ms	

If you want to display the hidden message again, just right-click [unhide all] anywhere in the display area to display the hidden information, as shown below.



➤ Open the module's setting web page

Open the module's setting web page by double-clicking on the module column, The click is between the [Module Name] and [IP Address] fields, as shown in the figure below, for example, the UA-I/O module UA, and BRK series also support this function, which is convenient to modify the various settings.



6. Warning message

*** Note: If a warning message box pops up or [Notes] displays a warning message, please refer to this chapter for instructions.**

6.1 Warning Message Form

When the software pops up a warning message box or [Notes] displays a warning message, you can query the corresponding warning message through the table below. From the description, you can know what the warning message means. The function that will display the warning message below will be coded express.

Warning Message	Description	Message Context						
		A. Module Details B. Reduce CPU usage C. Update Firmware D. Update Project E. Download Project F. Download Log G. Download Modbus and OPC UA Configuration						
This version does not support this feature	The modules already support some Utility functions, but new functions are not yet available.	A	B	C	D	E	F	G
Server not responding	The module must be updated to a version that supports Utility, or there may be network problems.	A	B	C	D	E	F	G
Unable to open the SFTP port (please check SD card)	Module usage is very high can not open the connection channel, or the SD card lose.			C	D	E	F	G
Please select an updated file	File not selected for update.			C	D			
Tick the module(s) that need to be updated	The update file has been imported, but no module is checked for an update.			C	D			
Please confirm whether the selected module(s) are the same (##Module Name)	When updating multiple modules, select different modules to update			C	D			
The updated file is different from the selected module(s) series	The firmware update package is different from the checked module series			C				
Update Fail	Same series but the firmware update package is different from the checked module.			C	D			
Please check the same series of module(s)	Check the different series of modules.					E	F	G
The remote module(s) does not have any	There is no Log file on the module.						F	

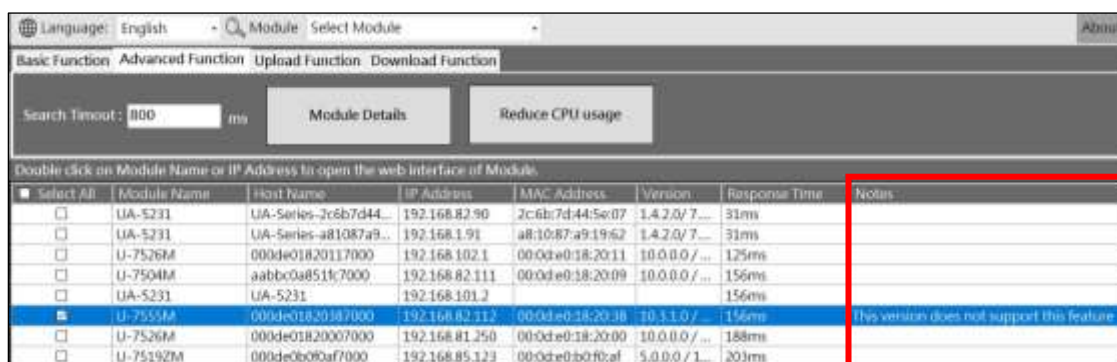
Warning Message	Description	Message Context					
		A. Module Details B. Reduce CPU usage C. Update Firmware D. Update Project E. Download Project F. Download Log G. Download Modbus and OPC UA Configuration					
LOG files							
Download fail	There is a file download error when downloading.					E	F
Please check to download the file module(s)	No module is checked for download					E	F
Password error no response	The entered password is different from the module setting utility password, so the action is cancelled.		B	C	D	E	

6.2 Warning Message Description

1. Message: 【 This version does not support this feature 】

Context: 【 **Module Details** 、 **Reduce CPU usage** 、 **Update Firmware** 、 **Update Project** 、 **Download Project** 、 **Download Log** 、 **Download Modbus and OPC UA Configuration** 】

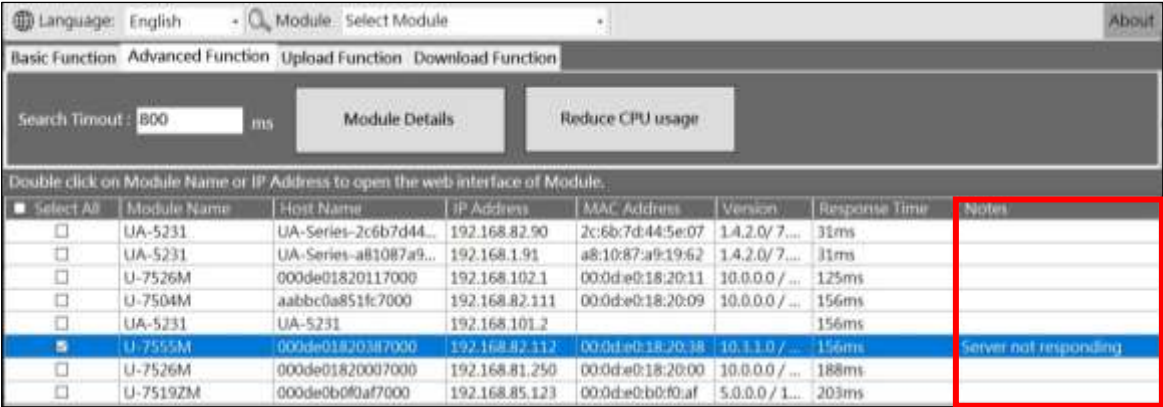
When the message below appears, it means that the module does not support this function or the password must be entered with an empty string. Entering an empty string is a function that can only be used in older versions. Please refer to Appendix A for each series of versions. If the version has not been updated, please first Use the module setting web page to update the firmware, or update via Utility.



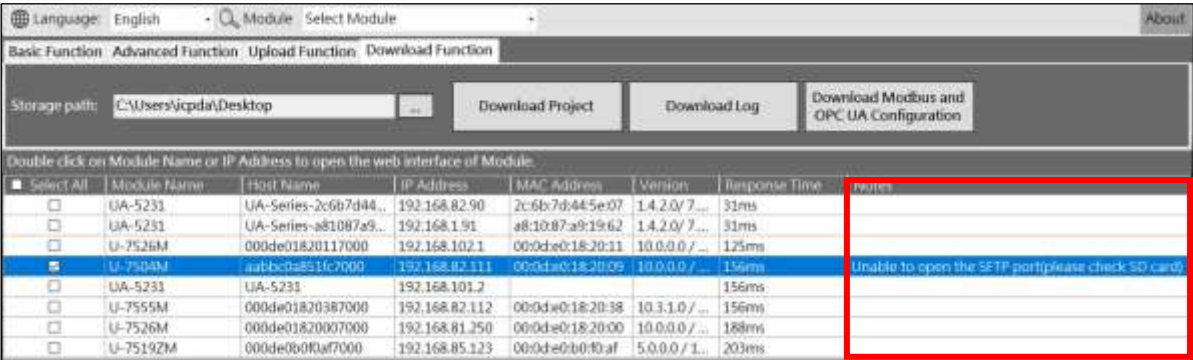
2. Message: 【 Server not responding 】

Context: 【 **Module Details** 、 **Reduce CPU usage** 、 **Update Firmware** 、 **Update Project** 、 **Download Project** 、 **Download Log** 、 **Download Modbus and OPC UA Configuration** 】

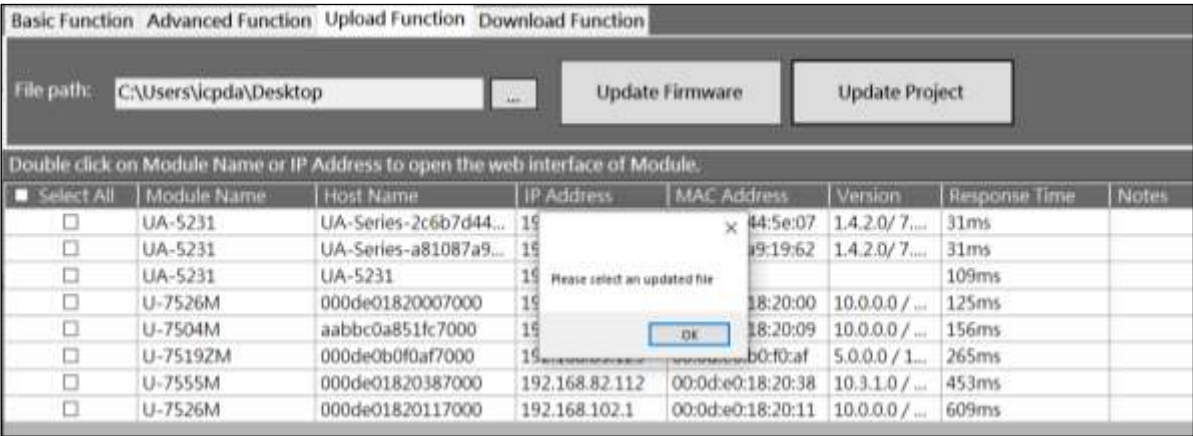
When the message below appears, please check the network is in good condition. Please refer to Appendix A. If the version has not been updated, please use the module's setting web page to update the firmware.



3. Message: 【 Unable to open the SFTP port (please check SD card) 】
- Context:【 **Update Firmware**、**Update Project**、**Download Project**、**Download Log**、**Download Modbus and OPC UA Configuration** 】
- When the message appears, it means that the module usage is high and cannot open the connection channel or the SD card lose, so it cannot upload or download files through the SD card, please confirm.



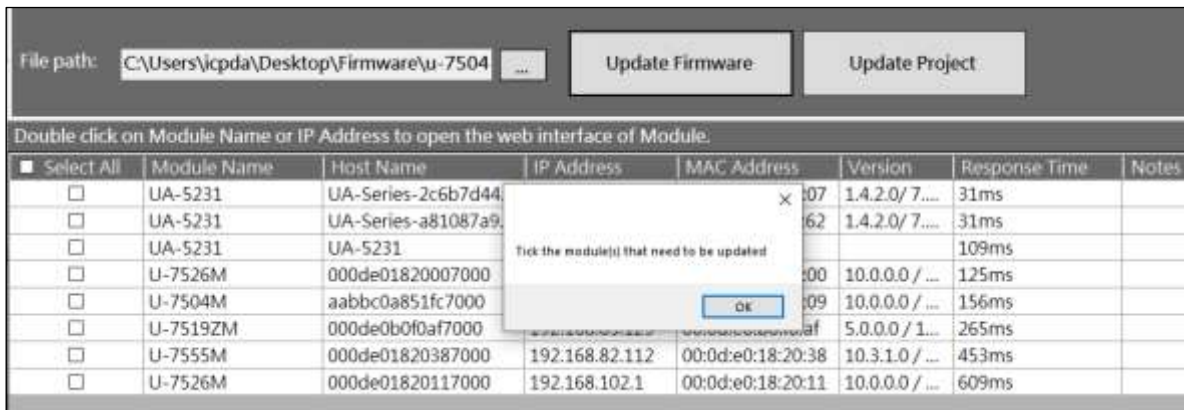
4. Message: 【 Please select an updated file 】
- Context: 【 **Update Firmware** 、 **Update Project** 】
- If you don't select the update file, click the [Update Firmware] 、 [Update Project] button and this dialog box will pop up. Please click 【...】 to select the update package as shown below.



5. Message: 【 Tick the module(s) that need to be updated 】

Context: 【 Update Firmware 、 Update Project 】

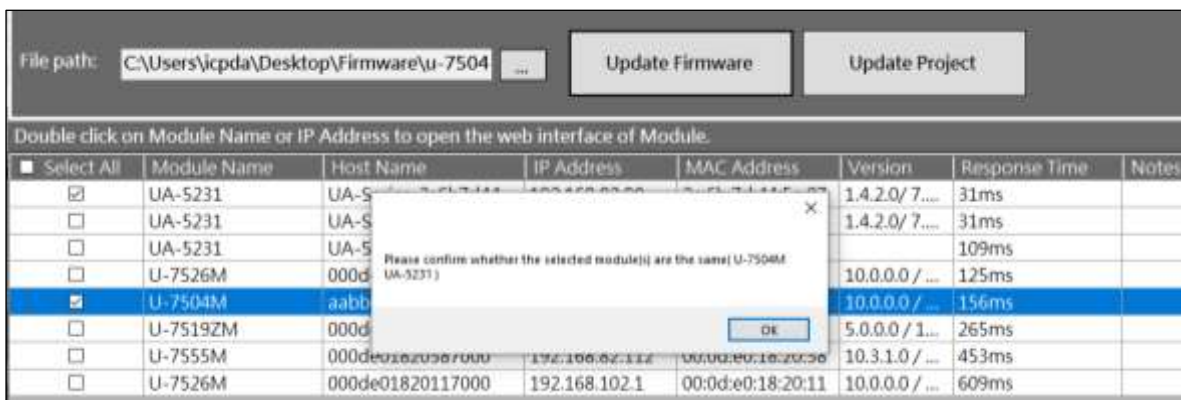
If no module is checked, click the [Update Firmware] and [Update Project] buttons directly, and this dialog box will pop up. Please first check the module model that needs to be updated, as shown below:



6. Message: 【 Please confirm whether the selected module(s) are the same (##Module Name) 】

Context: 【 Update Firmware 、 Update Project 】

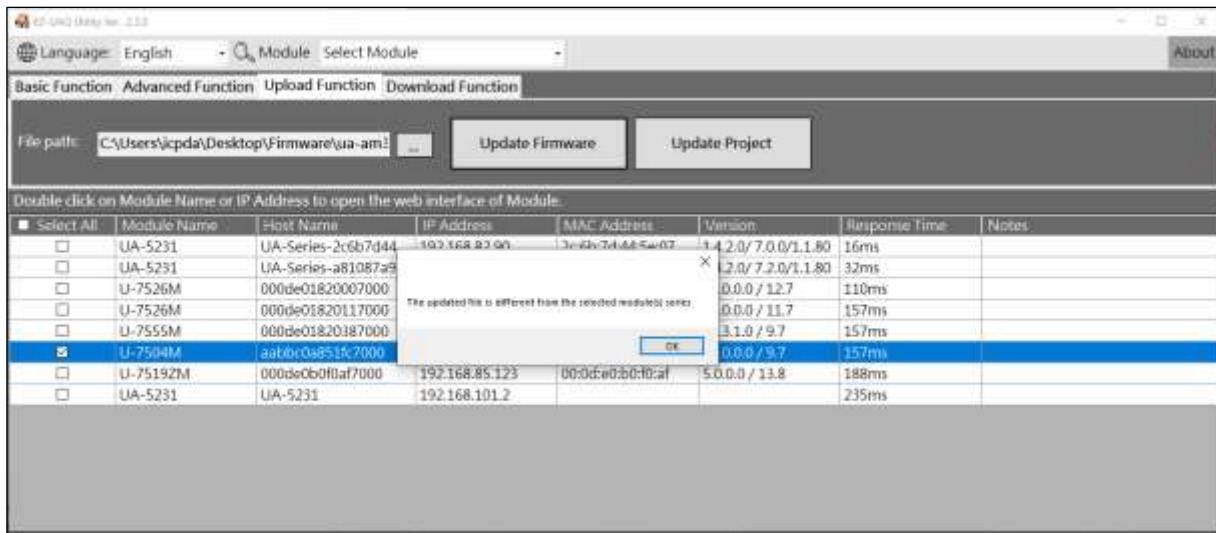
When updating multiple modules, this dialog box will pop up if you select different models. Please select the same model.



7. Message: 【 The updated file name is different from the selected module(s) series 】

Context: 【 Update Firmware 】

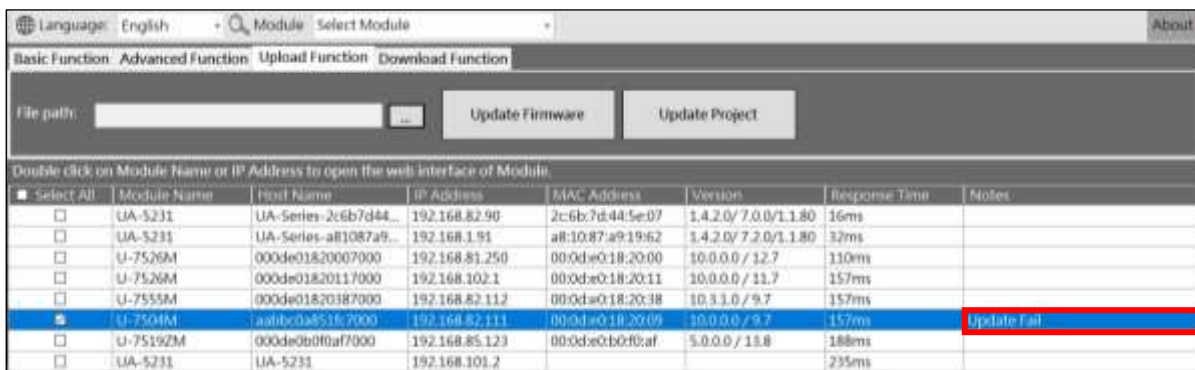
The following message appears, indicating that the firmware update package is different from the selected module series. Please use the installation package of the corresponding module to update. For example, the installation package of the UA communication module series will start with ua-, the installation package of the UA I/O series will start with u-, and the installation package of the BRK series will start with brk-.



8. Message: 【Update Fail】

Context: 【Update Firmware 、 Update Project】

For the same series but the firmware update package is different from the selected module model, or when the firmware package is updated through an update project, "Update Failed" will be displayed in the [Notes] field.

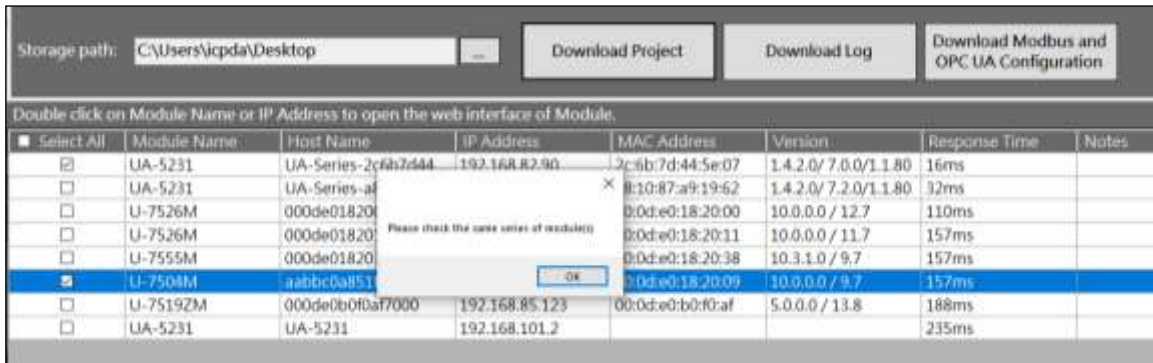


When [updating firmware], the module will keep the red light on. You only need to turn off the power of the module, or select the correct model update package and then update it to eliminate the problem of the red light always on.

9. Message: 【Please check the same series of module(s)】

Context: 【Download Project 、 Download Log 、 Download Modbus and OPC UA Configuration】

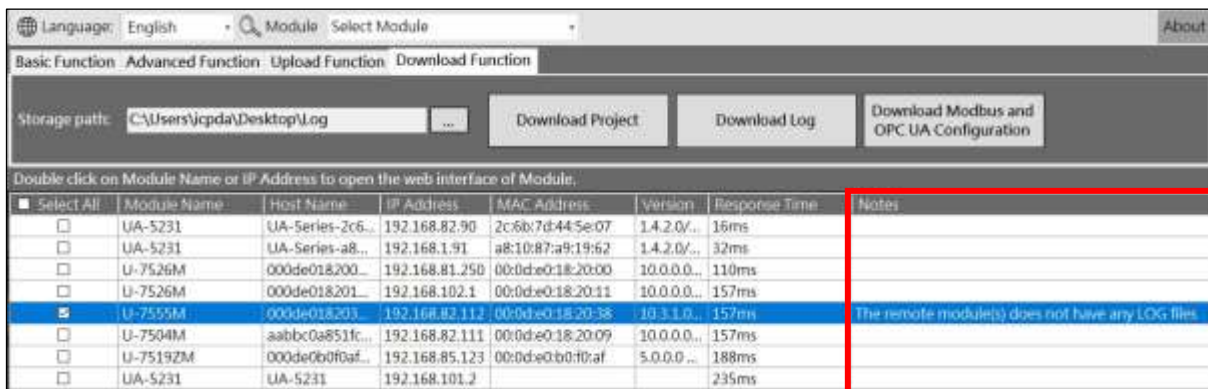
Check different series of modules and directly click the [Download Project], [Download Log], [Download Modbus and OPC UA Configuration] button. This dialog box will pop up. Please check the module models of the same series, as shown below:



10. Message: 【 The remote module(s) does not have any LOG files 】

Context: 【 Download Log 】

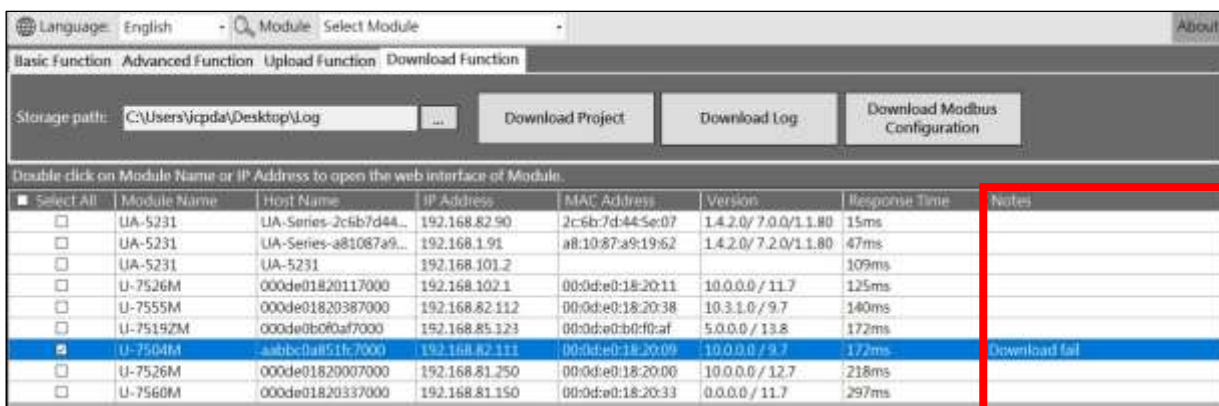
When no log is opened in the module, the dialog box below will pop up as shown below.



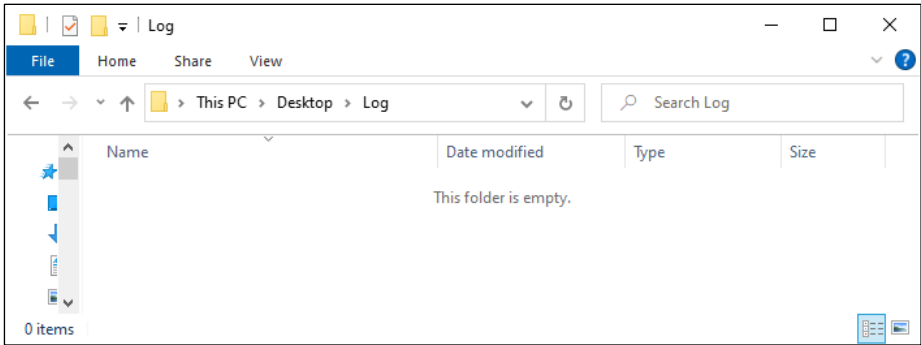
11. Message: 【 Download fail 】

Context: 【 Download Project 、 Download Log 、 Download Modbus and OPC UA Configuration 】

If the download fails, it may be because the network quality of the environment is not good, resulting in the file being unable to be downloaded smoothly. As long as there is a problem with the downloaded file, the Utility will trigger the reload mechanism. If the reload fails three times, the data will be lost. Delete the folder to prevent users from seeing that there is a file but being unable to open it.



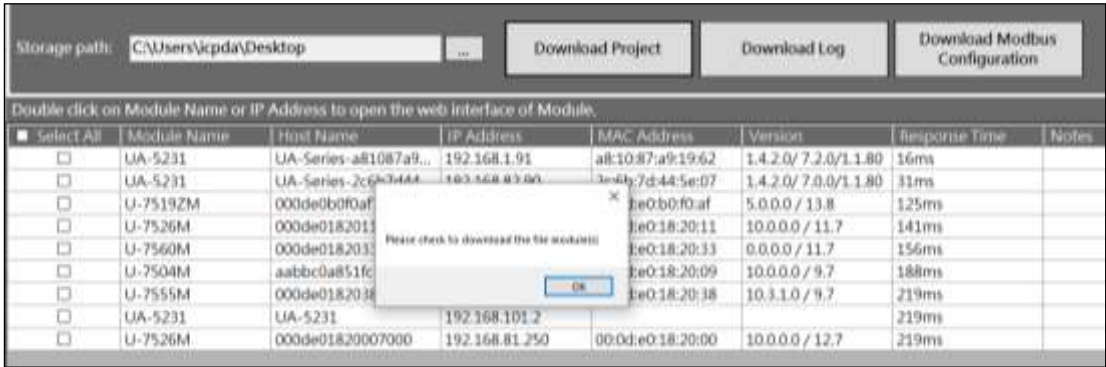
The picture below shows the selected storage path.



12. Message: 【 Please check to download the file module(s) 】

Context: 【 **Download Project** 、 **Download Log** 、 **Download Modbus and OPC UA Configuration** 】

The message below appears, indicating that the module that needs to be downloaded is not selected.

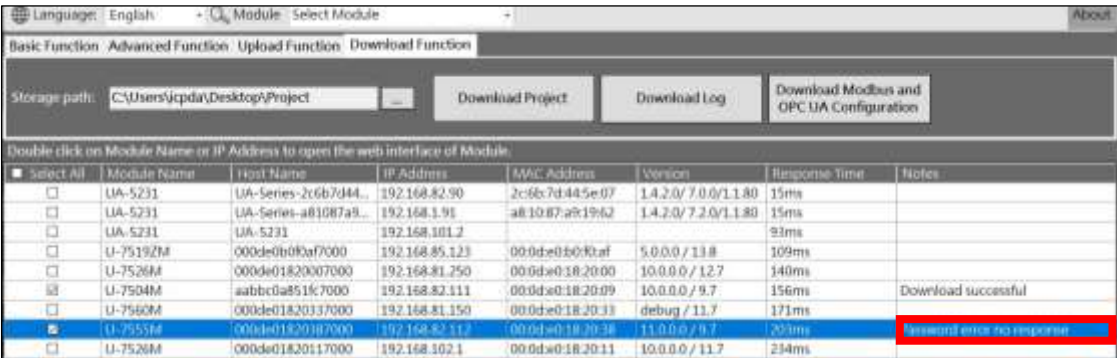


13. Message: 【 Password error no response 】

Context: 【 **Reduce CPU usage** 、 **Update Firmware** 、 **Update Project** 、 **Download Project** 】









The figure below shows that when modules of the same series but different models are used in the [Download Project] at the same time, the passwords set for the models are different, resulting in the two modules being unable to download at the same time. It is recommended that the passwords of the same series be set to same.

*** Note: Only the [Update Firmware] and [Update Project] functions require the same model to be updated in batches at the same time.**



















Appendix A









1. UA Series

Factory version	Basic Function	Update Firmware	Download Project	Download Log	Update Project	Module Details	Reduce CPU usage	Download Modbus and OPC UA Configuration
After 1.4.2.0 (inclusive)								

2. UA I/O Series

Factory version	Basic Function	Update Firmware	Download Project	Download Log	Update Project	Module Details	Reduce CPU usage	Download Modbus and OPC UA Configuration
Before 13.8								
After 13.8 (inclusive)								

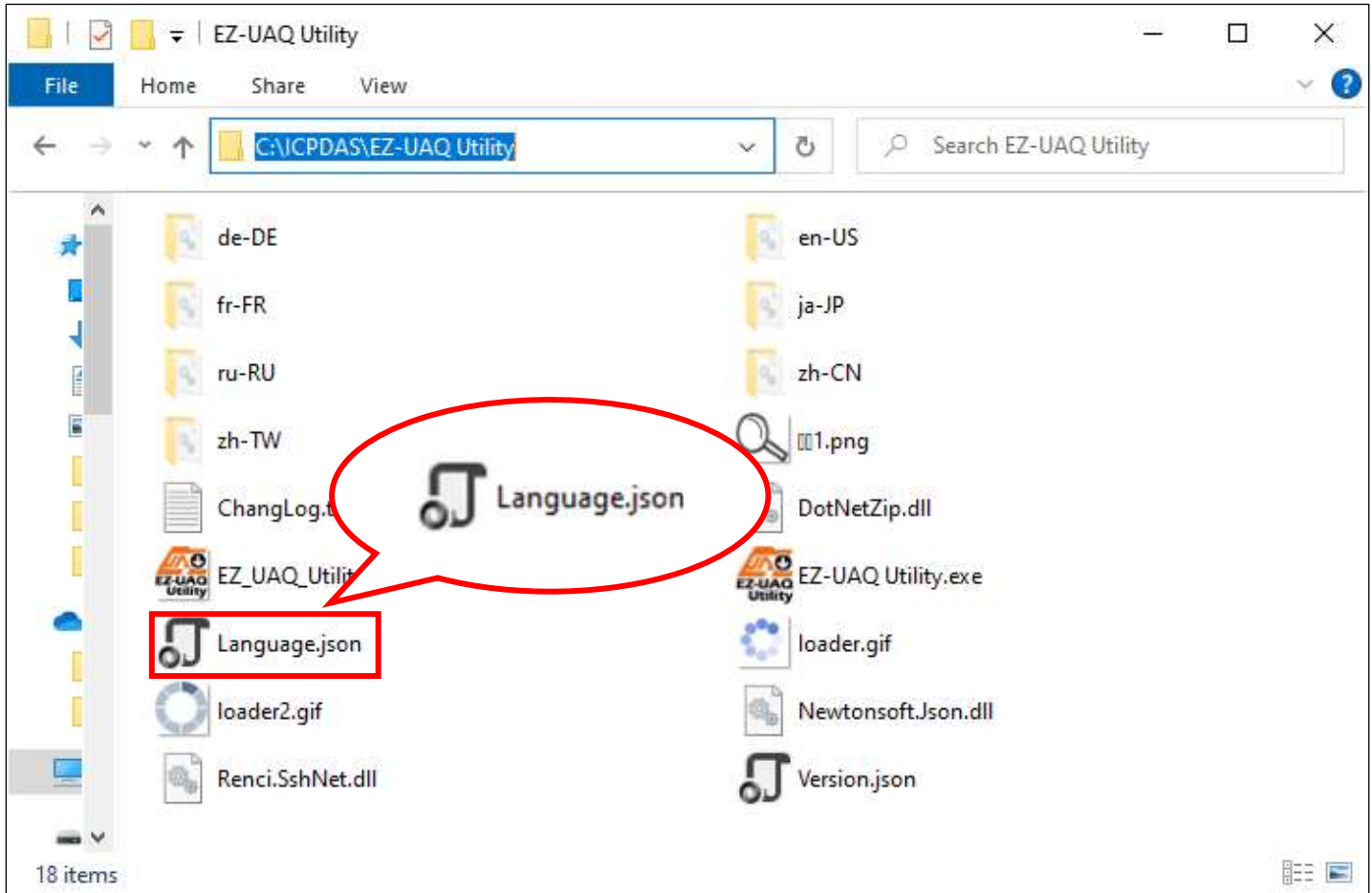
3. BRK Series

Factory version	Basic Function	Update Firmware	Download Project	Download Log	Update Project	Module Details	Reduce CPU usage	Download Modbus and OPC UA Configuration
1.0.0.0								

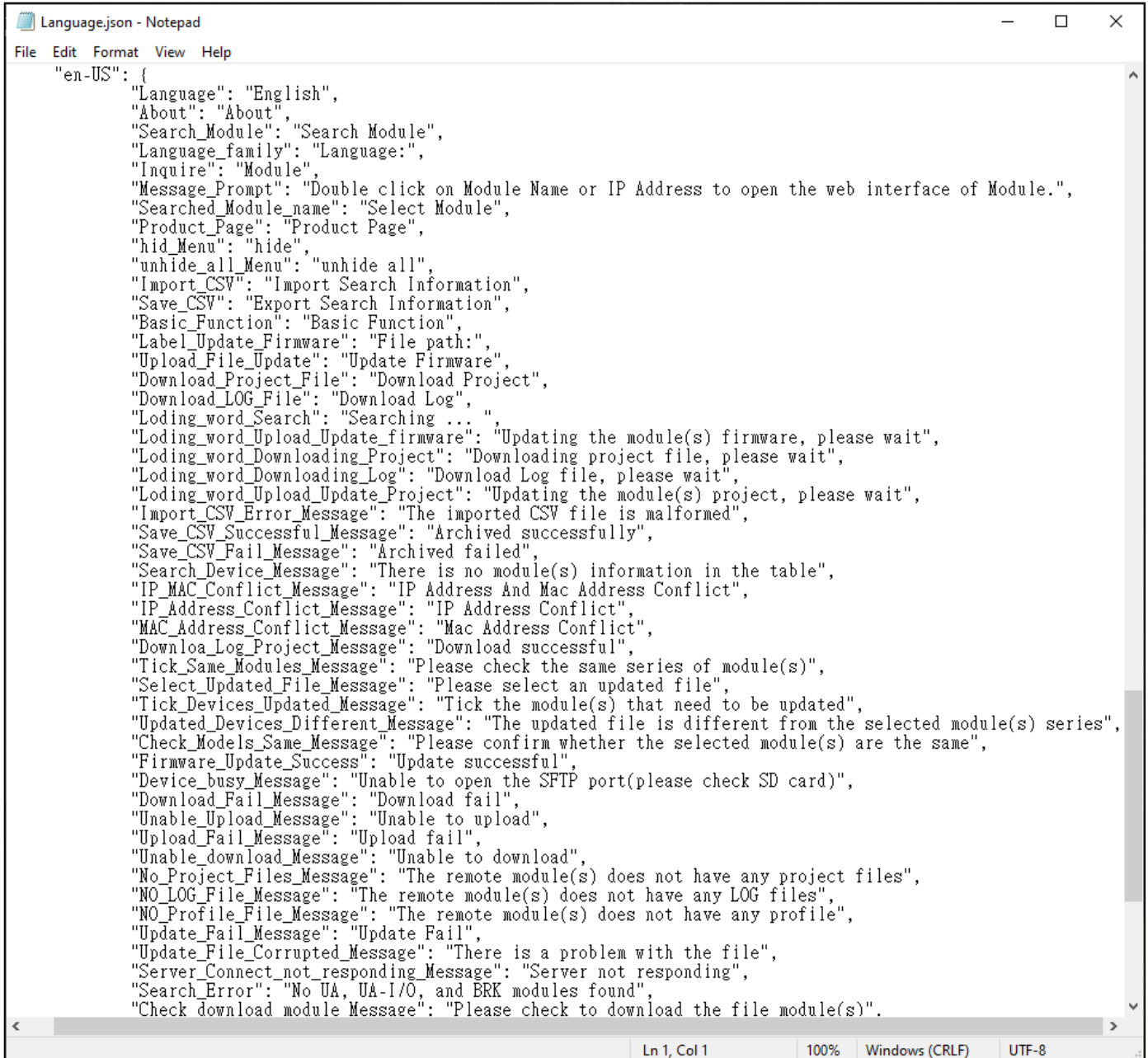
Appendix B

How to add other languages

The EZ-UAQ Utility installation path will be on the user's computer, located in the EZ-UAQ Utility folder in the ICPDAS folder in the system slot. This article uses adding Japanese as an example.



Copy the Language.json file in the EZ-UAQ Utility folder to another location, and then open the file with a text editor.



```

"en-US": {
  "Language": "English",
  "About": "About",
  "Search_Module": "Search Module",
  "Language_family": "Language:",
  "Inquire": "Module",
  "Message_Prompt": "Double click on Module Name or IP Address to open the web interface of Module.",
  "Searched_Module_name": "Select Module",
  "Product_Page": "Product Page",
  "hid_Menu": "hide",
  "unhide_all_Menu": "unhide all",
  "Import_CSV": "Import Search Information",
  "Save_CSV": "Export Search Information",
  "Basic_Function": "Basic Function",
  "Label_Update_Firmware": "File path:",
  "Upload_File_Update": "Update Firmware",
  "Download_Project_File": "Download Project",
  "Download_LOG_File": "Download Log",
  "Loding_word_Search": "Searching ...",
  "Loding_word_Upload_Update_firmware": "Updating the module(s) firmware, please wait",
  "Loding_word_Downloading_Project": "Downloading project file, please wait",
  "Loding_word_Downloading_Log": "Download Log file, please wait",
  "Loding_word_Upload_Update_Project": "Updating the module(s) project, please wait",
  "Import_CSV_Error_Message": "The imported CSV file is malformed",
  "Save_CSV_Successful_Message": "Archived successfully",
  "Save_CSV_Fail_Message": "Archived failed",
  "Search_Device_Message": "There is no module(s) information in the table",
  "IP_MAC_Conflict_Message": "IP Address And Mac Address Conflict",
  "IP_Address_Conflict_Message": "IP Address Conflict",
  "MAC_Address_Conflict_Message": "Mac Address Conflict",
  "Downloa_Log_Project_Message": "Download successful",
  "Tick_Same_Modules_Message": "Please check the same series of module(s)",
  "Select_Updated_File_Message": "Please select an updated file",
  "Tick_Devices_Updated_Message": "Tick the module(s) that need to be updated",
  "Updated_Devices_Different_Message": "The updated file is different from the selected module(s) series",
  "Check_Models_Same_Message": "Please confirm whether the selected module(s) are the same",
  "Firmware_Update_Success": "Update successful",
  "Device_busy_Message": "Unable to open the SFTP port(please check SD card)",
  "Download_Fail_Message": "Download fail",
  "Unable_Upload_Message": "Unable to upload",
  "Upload_Fail_Message": "Upload fail",
  "Unable_download_Message": "Unable to download",
  "No_Project_Files_Message": "The remote module(s) does not have any project files",
  "NO_LOG_File_Message": "The remote module(s) does not have any LOG files",
  "NO_Profile_File_Message": "The remote module(s) does not have any profile",
  "Update_Fail_Message": "Update Fail",
  "Update_File_Corrupted_Message": "There is a problem with the file",
  "Server_Connect_not_responding_Message": "Server not responding",
  "Search_Error": "No UA, UA-I/O, and BRK modules found",
  "Check_download_module_Message": "Please check to download the file module(s)".
}

```

Ln 1, Col 1 100% Windows (CRLF) UTF-8

Please copy the block [,"en-US": to }]. As shown below:

```

    },
    "en-US": {
        "Language": "English",
        "About": "About",
        "Search_Module": "Search Module",
        "Language_family": "Language:",
        "Inquire": "Module",
        "Message_Prompt": "Double click on Module Name or IP Address to open the web interface of Module.",
        "Searched_Module_name": "Select Module",
        "Product_Page": "Product Page",
        "hid_Menu": "hide",
        "unhide_all_Menu": "unhide all",
        "Import_CSV": "Import Search Information",
        "Save_CSV": "Export Search Information",
        "Basic_Function": "Basic Function",
        "Label_Update_Firmware": "File path:",
        "Upload_File_Update": "Update Firmware",
        "Download_Project_File": "Download Project",
        "Download_LOG_File": "Download Log",
        "Loding_word_Search": "Searching ...",
        "Loding_word_Upload_Update_firmware": "Updating the module(s) firmware, please wait",
        "Loding_word_Downloading_Project": "Downloading project file, please wait",
        "Loding_word_Downloading_Log": "Download Log file, please wait",
        "Loding_word_Upload_Update_Project": "Updating the module(s) project, please wait",
        "Import_CSV_Error_Message": "The imported CSV file is malformed",
        "Save_CSV_Successful_Message": "Archived successfully",
        "Save_CSV_Fail_Message": "Archived failed",
        "Search_Device_Message": "There is no module(s) information in the table",
        "IP_MAC_Conflict_Message": "IP Address And Mac Address Conflict",
        "IP_Address_Conflict_Message": "IP Address Conflict",
        "MAC_Address_Conflict_Message": "Mac Address Conflict",
        "Downloa_Log_Project_Message": "Download successful",
        "Tick_Same_Modules_Message": "Please check the same series of module(s)",
        "Select_Updated_File_Message": "Please select an updated file",
        "Tick_Devices_Updated_Message": "Tick the module(s) that need to be updated",
        "Updated_Devices_Different_Message": "The updated file is different from the selected module(s) series",
        "Check_Models_Same_Message": "Please confirm whether the selected module(s) are the same",
        "Firmware_Update_Success": "Update successful",
        "Device_busy_Message": "Unable to open the SFTP port(please check SD card)",
        "Download_Fail_Message": "Download fail",
        "Unable_Upload_Message": "Unable to upload",
        "Upload_Fail_Message": "Upload fail",
        "Unable_download_Message": "Unable to download",
        "No_Project_Files_Message": "The remote module(s) does not have any project files",
        "NO_LOG_File_Message": "The remote module(s) does not have any LOG files",
        "NO_Profile_File_Message": "The remote module(s) does not have any profile",
        "Update_Fail_Message": "Update Fail",
        "Update_File_Corrupted_Message": "There is a problem with the file",
        "Server_Connect_not_responding_Message": "Server not responding",
        "Search_Error": "No UA, UA-I/O, and BRK modules found",
        "Check_download_module_Message": "Please check to download the file module(s)",
        "detailed_information": "Module Details",
        "Server_Receive_not_responding_Message": "Unable to receive messages from the server",
        "Confirm_upload_file_Message": "Please confirm whether the size of the uploaded file exceeds 100kb",
        "Loding_word_Downloading_Profile": "Downloading the Modbus and OPC UA configuration file, please wait",
        "Upload_project_And_Update": "Update Project",
        "Download_Profile": "Download Modbus and OPC UA Configuration",
        "Loding_word_Get_Port_Protocol": "Get module(s) details",
        "Reduce_Performance_Modules": "Please tick Reduce Performance Modules",
        "Module_drop_performance": "Reduce CPU usage",
        "Potency_reduction_success": "CPU usage reduction success",
        "Performance_reduction_failed": "CPU usage reduction failed",
        "Not_Support_Feature_Message": "This version does not support this feature",
        "detailed_information_Message": "Unchecked any module(s), unable to get detailed information",
        "Advanced_Features": "Advanced Function",
        "Update_Function": "Upload Function",
        "Download_Function": "Download Function",
        "Storage_path": "Storage path:",
        "Password_error_Message": "Password error no response",
        "Please_enter_password": "Please enter password"
    }
}

```

Then paste the copied format after the "en-US": symbol } below the end of the text. As shown below:

```

        "Not_Support_Feature_Message": "This version does not support this feature",
        "detailed_information_Message": "Unchecked any module(s), unable to get detailed information",
        "Advanced_Features": "Advanced Function",
        "Update_Function": "Upload Function",
        "Download_Function": "Download Function",
        "Storage_path": "Storage path:",
        "Password_error_Message": "Password error no response",
        "Please_enter_password": "Please enter password"
    }
}

```

Then change the copied English language "en-US": to Japanese "Japanese":, as shown below:

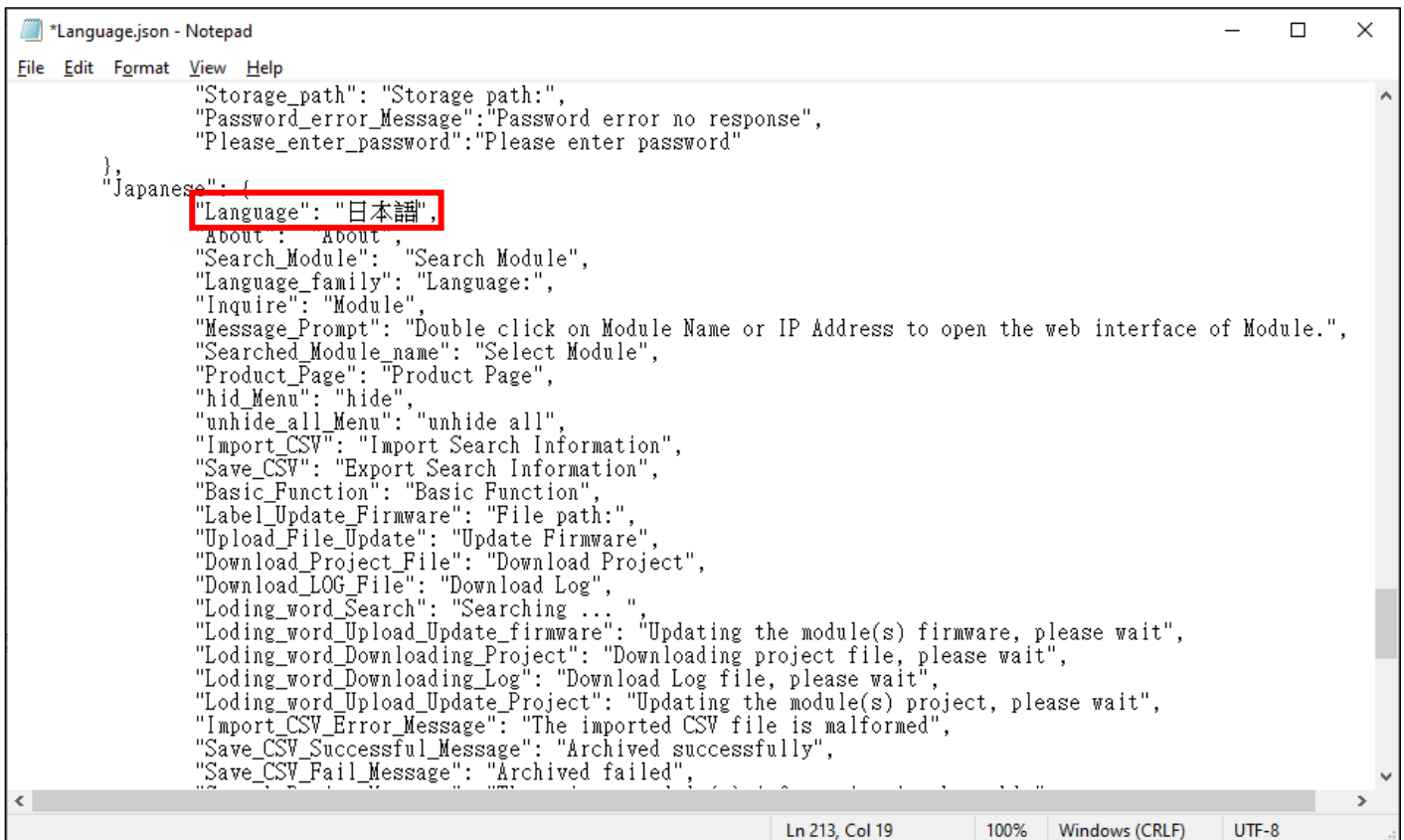


```

"Storage_path": "Storage path:",
"Password_error_Message": "Password error no response",
"Please_enter_password": "Please enter password"
},
"Japanese": {
  "Language": "English",
  "About": "About",
  "Search_Module": "Search Module",
  "Language_family": "Language:",
  "Inquire": "Module",
  "Message_Prompt": "Double click on Module Name or IP Address to open the web interface of Module.",
  "Searched_Module_name": "Select Module",
  "Product_Page": "Product Page",
  "hid_Menu": "hide",
  "unhide_all_Menu": "unhide all",
  "Import_CSV": "Import Search Information",
  "Save_CSV": "Export Search Information",
  "Basic_Function": "Basic Function",
  "Label_Update_Firmware": "File path:",
  "Upload_File_Update": "Update Firmware",
  "Download_Project_File": "Download Project",
  "Download_LOG_File": "Download Log",
  "Loding_word_Search": "Searching ... ",
  "Loding_word_Upload_Update_firmware": "Updating the module(s) firmware, please wait",
  "Loding_word_Downloading_Project": "Downloading project file, please wait",
  "Loding_word_Downloading_Log": "Download Log file, please wait",
  "Loding_word_Upload_Update_Project": "Updating the module(s) project, please wait",
  "Import_CSV_Error_Message": "The imported CSV file is malformed",
  "Save_CSV_Successful_Message": "Archived successfully",
  "Save_CSV_Fail_Message": "Archived failed",

```

Then change ("Language": "English",) under Japanese "Japanese" to ("Language": "日本語",), as shown below:

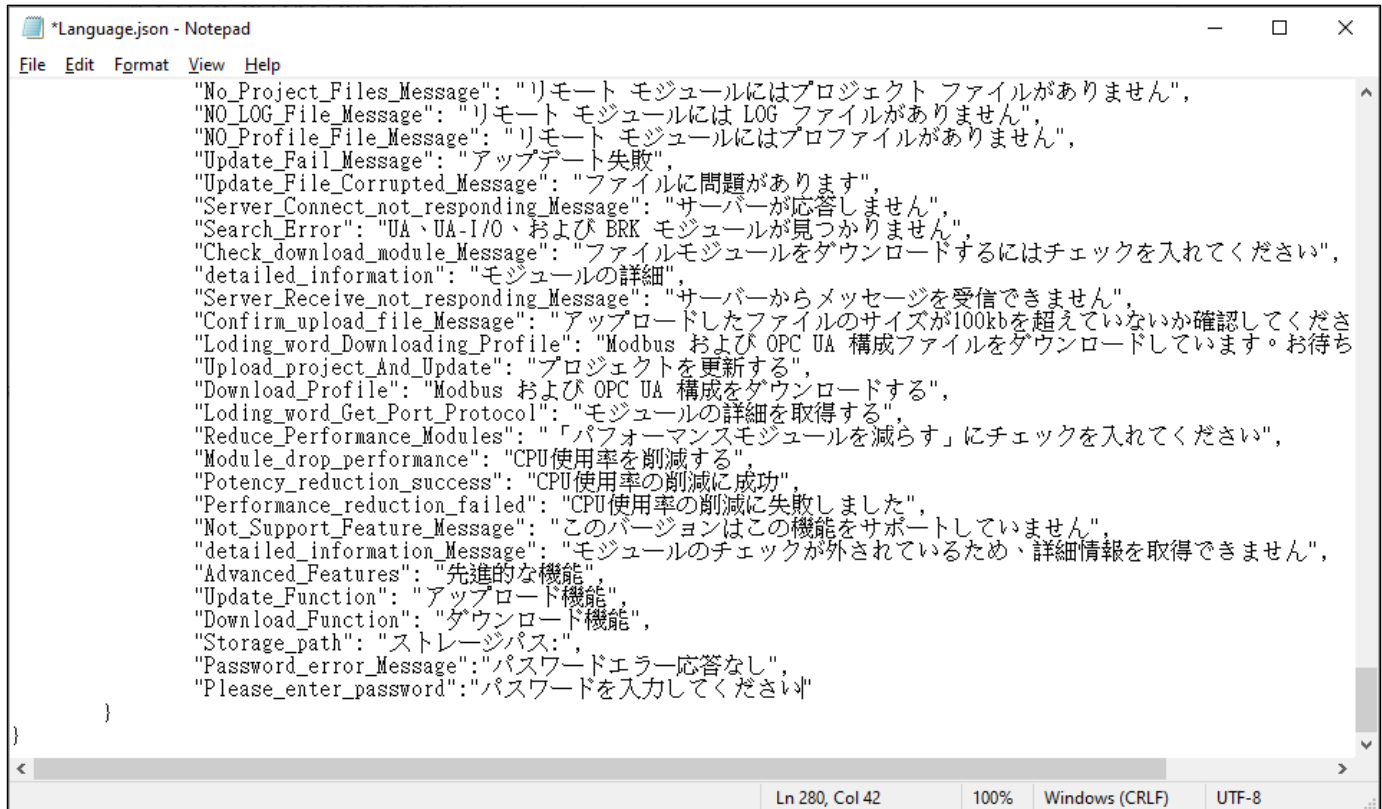


```

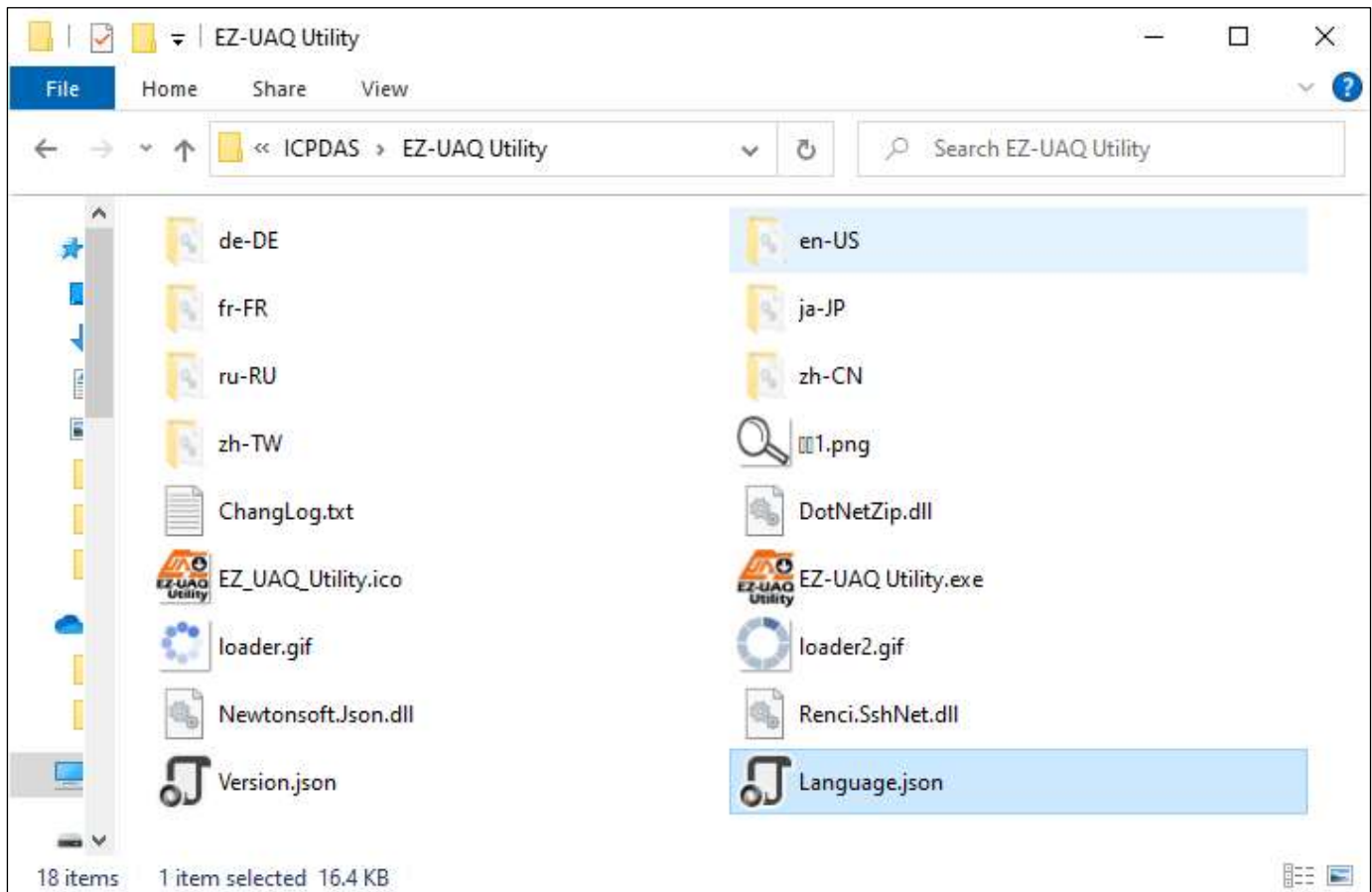
"Storage_path": "Storage path:",
"Password_error_Message": "Password error no response",
"Please_enter_password": "Please enter password"
},
"Japanese": {
  "Language": "日本語",
  "About": "About",
  "Search_Module": "Search Module",
  "Language_family": "Language:",
  "Inquire": "Module",
  "Message_Prompt": "Double click on Module Name or IP Address to open the web interface of Module.",
  "Searched_Module_name": "Select Module",
  "Product_Page": "Product Page",
  "hid_Menu": "hide",
  "unhide_all_Menu": "unhide all",
  "Import_CSV": "Import Search Information",
  "Save_CSV": "Export Search Information",
  "Basic_Function": "Basic Function",
  "Label_Update_Firmware": "File path:",
  "Upload_File_Update": "Update Firmware",
  "Download_Project_File": "Download Project",
  "Download_LOG_File": "Download Log",
  "Loding_word_Search": "Searching ... ",
  "Loding_word_Upload_Update_firmware": "Updating the module(s) firmware, please wait",
  "Loding_word_Downloading_Project": "Downloading project file, please wait",
  "Loding_word_Downloading_Log": "Download Log file, please wait",
  "Loding_word_Upload_Update_Project": "Updating the module(s) project, please wait",
  "Import_CSV_Error_Message": "The imported CSV file is malformed",
  "Save_CSV_Successful_Message": "Archived successfully",
  "Save_CSV_Fail_Message": "Archived failed",

```

Then change the software interface words in sequence (such as ""The middle text is buttons and messages) to Japanese (or other required languages). As shown below:



After the modification is completed, please save the file and place the modified file in the EZ-UAQ Utility installation path.



Then start the software, switch the language system to the newly added Japanese, and import the created language system.

言語: 日本語 モジュール モジュールの選択

基本機能 先進的な機能 アップロード機能 ダウンロード機能

検索モジュール 検索情報のエクスポート インポート検索情報 製品ページ

モジュール名または IP アドレスをダブルクリックして、モジュールの Web インターフェイスを開きます。

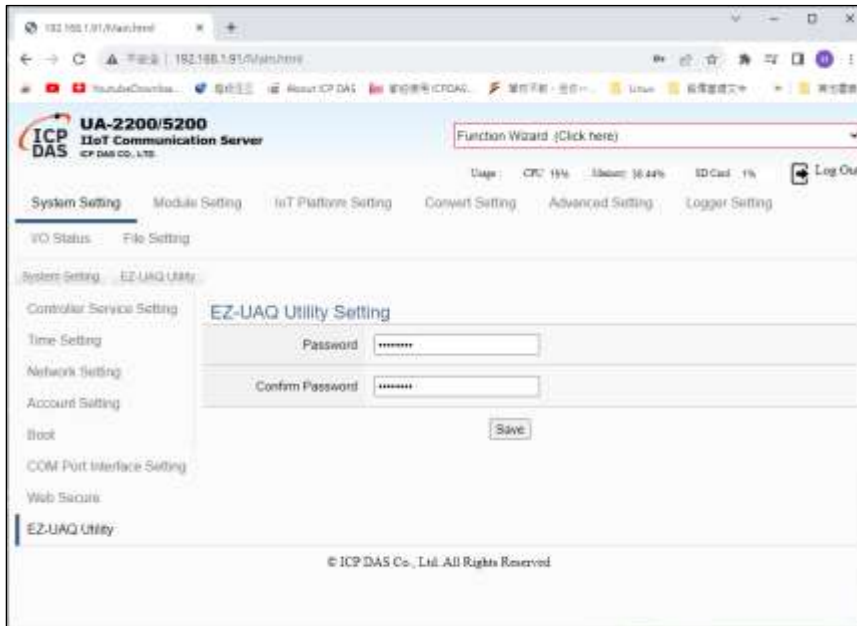
Select All	Module Name	Host Name	IP Address	MAC Address	Version	Response Time	Notes
<input type="checkbox"/>	U-7526M	000de01820007000	192.168.81.250	00:0de0:18:20:00	10.0.0.0 / 12.7	125ms	
<input type="checkbox"/>	U-7526M	000de01820117000	192.168.102.1	00:0de0:18:20:11	10.0.0.0 / 11.7	156ms	
<input type="checkbox"/>	U-7560M	000de01820337000	192.168.81.150	00:0de0:18:20:33	11.0.0.0 / 11.7	156ms	
<input type="checkbox"/>	U-7504M	aabbc0a851fc7000	192.168.82.111	00:0de0:18:20:09	10.0.0.0 / 9.7	172ms	
<input type="checkbox"/>	U-7555M	000de01820387000	192.168.82.112	00:0de0:18:20:38	11.0.0.0 / 9.7	188ms	
<input type="checkbox"/>	UA-5231	UA-Series-a81087a9...	192.168.1.91	a8:10:87:a9:19:62	1.4.2.0/ 7.5.0/1.1.81	31ms	
<input type="checkbox"/>	UA-2241M	UA-Series-90706540...	192.168.85.90	90:70:65:40:89:55	1.4.2.0/ 7.5.0/1.1.81	78ms	
<input type="checkbox"/>	UA-5231	UA-5231	192.168.101.2			125ms	

Appendix C

1. Set EZ-UAQ Utility password for UA communication server series

Please go to the UA web interface to configure the module, and then click System Setting => EZ-UAQ Utility to set the password.

***Before setting the password, the password displayed on the communication server and EZ-UAQ Utility software is the default password.**



2. Set EZ-UAQ Utility password for UA I/O module series

Please go to the UA I/O web interface to configure the module, and then click Advanced Setting => EZ-UAQ Utility to set the password.

***Before the password is set, the password displayed on the module and EZ-UAQ Utility software is the default password.**

