

EZ-UAQ Utility User Manual V3.0.2, 2025/4 (For SW V3.0.10 Beta above)

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Document Version Modify List

Version	Description								
	Date:2025/03								
	1. Software Installation: Modify the Title Text								
	2. Advanced:								
3.0.2	♦ Agreement Security: Changed to Protocol Security								
	3. Appendix:								
	Modified the title of Appendix A and Appendix B								
	\diamond Modified Appendix C (Certificate date input restrictions, maximum value								
	changed to 2 years)								
	Added Appendix D (Resolved UA, UA I/O, and BRK web connection								
	security display issues)								
	Date:2025/02								
	1. Preparation Before Installation: Add an operational illustration								
	2. Advanced:								
	Reduce CPU Usage: Change "Whether to clean the module's CPU								
	usage" to "Release"								
	3. Upload:								
3.0.1	Update Modbus Configuration: Update Modbus to OPC UA and Modbus								
	to MQTT template files (add UA-7231M)								
	4. Certificate:								
	Update OPC UA Server/Client: Add 1 flowchart								
	 Opdate MQTT Bloker/Client. Add 2 nowcharts Warning Massages & Descriptions: Delete the massage "Il Inchie to open SETD. 								
	5. Warning Messages & Descriptions. Delete the message [Onable to open SFTF port (please check SD card)]"								
	1 Advanced:								
	 Advanced. ♦ Add Agreement Security 								
	 Add Language Settings Reset 								
	2. Upload								
3.0.0	3. Download:								
	♦ Change "Modbus and OPC UA Configuration" to "Modbus Configuration								
	Function"								
	4. Add Certificate								
	♦ Query Validity Period								
	♦ Add CA								
	♦ Update HTTPS								
	♦ Update OPC UA Server / Client								
	♦ Update MQTT Broker / Client								
	♦ File Export								
	♦ Document Import								

Version	Description							
	5. Warning Messages:							
	♦ Update Warning Message Table							
	\diamond Add "Unable to upload" and "Unable to download" messages							
	6. Appendix							
	♦ Update Appendix A (Factory Version)							
	\diamond Remove Appendix (How to Add Other Languages)							
	\diamond Update Appendix B (UA/UA I/O Series Setting EZ-UAQ Utility Password)							
	♦ Add Appendix C (Certificate Date Input Restrictions)							
	Date:2024/08							
	1. Basic Functions							
	♦ Search Module							
	♦ Export Search Information							
	♦ Import Search Information							
	♦ Product Webpage							
	2. Advanced Functions							
	♦ Module Detailed Information							
	♦ Reduce CPU Usage							
	3. Upload Functions							
	♦ Update Firmware							
	♦ Update Project							
	4. Download Functions							
2.3.1	Ownload Project							
	 Download Log Devents and Mastheway and ODO 114. Carefirmunation 							
	Download Modbus and OPC UA Configuration							
	5. Display Area							
	6. Warning Messages							
	Appendices							
	\sim Appendix A (Factory Version)							
	γ Appendix D (now to Add Other Languages) Δ Appendix C (LIA/LIA I/O Series Setting E7 LIAO Litility Decovered)							
	\Rightarrow Appendix C (UA/UA I/O Series Setting E2-UAQ Utility Password)							

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 Excel file, and the saved Excel 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 <u>Appendix A</u>.)

2. Preparation for installation

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

Before using the EZ-UAQ Utility software, please ensure that the UA, UA I/O, and BRK series are connected to both the power supply and network cable. The users can easily access the module information, upload/download files, and manage certificates through the software. (please refer to the user's manual of each series)



Figure 2-1 Illustration of Operation

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

3. Software Installation

Please click to download EZ-UAQ Utility from following linkage:

https://www.icpdas.com/en/download/show.php?num=8560&nation=TW&kind1=&model=&kw=E Z-UAQ

Download and unzipped EZ-UAQ Utility version 3.0.10 then shows file as following capture.



Figure 3-1 Unzipped file of EZ-UAQ Utility

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



Figure 3-2 EZ-UAQ Utility Installation File Steps (1)

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



Figure 3-3 EZ-UAQ Utility Installation File Steps (2)

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



Figure 3-4 EZ-UAQ Utility Installation File Steps (3)

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



Figure 3-5 EZ-UAQ Utility Installation File Steps (4)

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



Figure 3-6 EZ-UAQ Utility software shortcut

4. User Interface Introduction

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

Toolbar: Switching languages, Select module, About.

Functions: Five main functions of EZ-UAQ Utility

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

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

Certificate: Provides efficient and convenient certificate management functions for generating certificates and updating them to the 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 <u>Display Area</u>).
- Click the "Copy" function to directly paste the Host Name, IP, and other information on the module to the third-party software.(please refer to 5.3 <u>Display Area</u>).

🙀 EZ-UAQ I	Jtility							Toolbar	1 ×
🌐 Langı	uage: English	- Q Mo	dule Select M	odule	•				About
Basic	Advanced	Upload	Download	Certificate					
	earch	Product Page		Export Import	Modula			Functi	ions
Select A	All Module Na	ime Hos	st Name	IP Address	MAC Address	Version	Response Time	Notes	
								Display A	Area

Figure 4-1 The operation interface of EZ-UAQ Utility

5. Interface Function Details

5.1 Toolbar

🕀 Language:	English •	Q Module	UA-5231	-	About

Figure 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. (5.2.2 <u>add other anguages</u>)

🌐 Langua	age:	English -
Basic	Ac	繁體中文 简体中文
- Module -		English

Figure 5-2 Select Language Page

5.1.2 Select Module

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

<u>5.2.1</u>)

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-7526M module.

Q Mo	dule	Select Module
oad	Dov	UA-5231(M) UA-5231M
		UA-5231 BRK-2841M
roduct		U-7560M

Figure 5-3 Select Module Page

🥵 EZ-UAQ Utility — 🛛						×				
) Langua	age: English	- Q M	odule U-7526M		•				1	About
Basic	Advanced	Upload	Download	Certificate						
- Module -	Module File Q Search Product Page Import									
Double clie	ck on Module Na	me or IP Ad	dress to open the	e web interface	of Module.					
Select Al	II Module Nam	ie Ho	ost Name	IP Address	MAC Addre	ess Version	Re	esponse Time	Notes	
	U-7526M	00(0de01820827000	192.168.82.20	02:80 00:0d:e0:b0:	f0:00 13.3.0.0 / 1	140	0ms		
	U-7526M	00/	Jde01820117000	192.168.102.1	1:80 00:0d:e0:18:	20:11 12.0.0.0 / 1	15.9 375	′5ms		

Figure 5-4 Filter Module Information Display Area

5.1.3 About

Clicking the **[About]** button on the toolbar will display the version information and update details of the EZ-UAQ Utility.

EZ-UAQ Utility Comparison EZ-UAQ Utility Ver. 3.0.10 (Beta) Version Information Ver. 3.0.10 (Beta), April 01,2025 1.Download Modbus Configuration Excel Modbus ToOPCUADetails appears Null error when grabbing Bitwise data. Ver. 3.0.8 (Beta), February 07,2025 1.Credentials Management Module Credentials. 2.Multi-language support. 3.Module protocol security summary table. 4.Interface adjustment. 5. Display message text location. 6. Modify Note to clear when no module is checked.

Figure 5-5 About page

5.2 Functions

Basic	Advanced	Upload	Download	Certificate		
Figure 5-6 Functions						

5.2.1 Basic



Figure 5-7 Basic Functions

Search Module

Click the **[Search]** button to scan and display all UA, UA I/O, and BRK series modules with network segment IP settings in the display area.

- Karal Kar						- 0	X C	
Hanguag	e: English - (Q Module Select Module	e	•				About
Basic	Advanced Uplo	oad Download C	Certificate					
Module —	- Module - Q Search Product Page Import							
Double click	on Module Name or	IP Address to open the we	eb interface of Modu	ıl <mark>e</mark> .				
Select All	Module Name	Host Name	IP Address	MAC Address	Version	Response Time	Notes	
	UA-5231	UA-Series-1442fca93039	192.168.101.2:80	14:42:fc:a9:30:39	1.4.6.32/ 8.5.0/1.1.85	31ms		
	UA-5231(M)	UA-Series-f4e11e954e4c	192.168.85.216:80	f4:e1:1e:95:4e:4c	1.5.0.0/ 8.8.0/1.1.85	94ms		
	UA-5231(M)	UA-Series-f4e11e955a85	192.168.255.102:80	f4:e1:1e:95:5a:85	1.5.0.0/ 8.8.0/1.1.85	94ms		
	UA-5231M	UA-Series-68c90be4d6cc	192.168.82.201:80	68:c9:0b:e4:d6:cc	1.5.0.2/ 8.8.0/1.1.85	94ms		
	BRK-2841M	ICPDAS-BRK-2841M	192.168.255.60:80	00:0d:e0:18:2b:03	1.1.0.0	172ms		
	BRK-2841M	BRK-2841M-8461	192.168.84.61:80	00:0d:e0:18:2b:01	1.1.0.0	172ms		
	U-7526M	000de01820827000	192.168.82.202:80	00:0d:e0:b0:f0:00	13.3.0.0 / 16.10	188ms		

Figure 5-8 Search Module Information Display Area

*Note: If any of the following three situations occur, please modify the IP to avoid IP conflicts and module communication issues. If there is a problem with the MAC address, please contact technical support personnel.

(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
	UA-5231M	UA-Series-68c90	192.168.82.201:80	68:c9:0b:e4:d6:cc	1.4.6.29/ 8.5	0ms	IP Address Conflict
	UA-5231	UA-Series-1442fc	192.168.101.2:80	14:42:fc:a9:30:39	1.4.6.32/ 8.5	0ms	
	BRK-2841M	BRK-2841M-8461	192.168.84.61:80	00:0d:e0:18:2b:01	1.0.0.79	110ms	
	BRK-2841M	BRK-2841M-8460	192.168.84.60:80	00:0d:e0:18:2b:05	1.0.0.79	141ms	
	U-7526M	000de018201170	192.168.102.1:80	00:0d:e0:18:20:11	12.0.0.0 / 15.9	156ms	
	U-7560M	000de018210270	192.168.81.100:80	00:0d:e0:18:21:02	14.0.0.0 / 16	250ms	
	U-7526M	000de018208270	192.168.82.201:80	00:0d:e0:18:20:82	13.2.0.0 / 16	938ms	IP Address Conflict

Figure 5-9 Display page in case of module IP 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
	UA-5231M	UA-Series-68c90	192.168.82.201:80	68:c9:0b:e4:d6:cc	1.4.6.29/ 8.5	15ms	Mac Address Conflict
	UA-5231	UA-Series-1442fc	192.168.101.2:80	14:42:fc:a9:30:39	1.4.6.32/ 8.5	62ms	
	BRK-2841M	BRK-2841M-8461	192.168.84.61:80	00:0d:e0:18:2b:01	1.0.0.79	109ms	
	BRK-2841M	BRK-2841M-8460	192.168.84.60:80	00:0d:e0:18:2b:05	1.0.0.79	140ms	
	U-7526M	000de018201170	192.168.102.1:80	00:0d:e0:18:20:11	12.0.0.0 / 15.9	156ms	
	U-7526M	000de018208270	192.168.82.202:80	68:c9:0b:e4:d6:cc	13.2.0.0 / 16	187ms	Mac Address Conflict
	U-7560M	000de018210270	192.168.81.100:80	00:0d:e0:18:21:02	14.0.0.0 / 16	250ms	

Figure 5-10 Display page in case of module MAC 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
	UA-5231M	UA-Series-68c90	192.168.82.201:80	68:c9:0b:e4:d6:cc	1.4.6.29/ 8.5	15ms	IP Address And Mac Address Conflict
	UA-5231	UA-Series-1442fc	192.168.101.2:80	14:42:fc:a9:30:39	1.4.6.32/ 8.5	31ms	
	BRK-2841M	BRK-2841M-8461	192.168.84.61:80	00:0d:e0:18:2b:01	1.0.0.79	109ms	
	BRK-2841M	BRK-2841M-8460	192.168.84.60:80	00:0d:e0:18:2b:05	1.0.0.79	140ms	
	U-7526M	000de018208270	192.168.82.201:80	68:c9:0b:e4:d6:cc	13.2.0.0 / 16	156ms	IP Address And Mac Address Conflict
	U-7526M	000de018201170	192.168.102.1:80	00:0d:e0:18:20:11	12.0.0.0 / 15.9	172ms	
	U-7560M	000de018210270	192.168.81.100:80	00:0d:e0:18:21:02	14.0.0.0 / 16	250ms	

Figure 5-11 Module IP address and MAC address conflict display page

Product Page

When the module checkbox is not selected, clicking the **[Product Page]** button will simultaneously open the official websites for the UA, UA I/O, and BRK series, and display the corresponding pages based on the language setting.

👫 EZ-UAQ Util	lity						- 🗆 ×
🌐 Langua	ige: English - C	X Module Select Module	e	-			About
Basic	Advanced Uplo	ad Download C	Certificate				
- Module –	Module File. Q Search Product Export G Import						
Double clic	k on Module Name or I	P Address to open the we	eb interface of Modu	e.			
Select All	Module Name	Host Name	IP Address	MAC Address	Version	Response Time	Notes
	UA-5231(M)	UA-Series-f4e11e955a85	192.168.255.102:80	f4:e1:1e:95:5a:85	1.5.0.0/ 8.8.0/1.1.85	94ms	
	UA-5231M	UA-Series-58c90be4d6cc	192.168.82.201:80	68:c9:0b:e4:d6:cc	1.5.0.2/ 8.8.0/1.1.85	94ms	
	BRK-2841M	ICPDAS-BRK 2841M	192.168.255.60:80	00:0d:e0:18:2b:03	1.1.0.0	172ms	
	BRK-2841M	BRK-2841M-8401	192.168.84.61:80	00:0d:e0:18:2b:01	1.1.0.0	172ms	
	U-7526M	000de01820827000	192.168.82.202:80	00:0d:e0:b0:f0:00	13.3.0.0 / 16.10	188ms	

Figure 5-12 Product Web Page (Unchecked Module)

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OPC UA I/O Modules	IIoT Communication Server: UA Series	MQTT Broker Communication Server: BRK Series	
Device Connectivity OPC UA U-7500 Support for F Support for F	Connect of which of the state o	System Architecture	A De
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When the module checkbox is selected, clicking the **[Product Page]** button opens the selected module's product webpage based on the language setting. For UA modules, firmware below V1.4.2.0 opens the selection table directly.

👯 EZ-UAQ Utility	🙀 Ez-UAQ Utility — 🗆 >						- 🗆 ×
Hanguage							About
Basic	Advanced Uploa	d Download C	ertificate				
Module Q Sear	Module File Search Product Page Import						
Double click	on Module Name or IP	Address to open the we	b interface of Modu	le.			
Select All	Module Name	Host Name	IP Address	MAC Address	Version	Response Time	Notes
	UA-5231(M)	UA-Series-f4e11e955a85	192.168.255.102:80	f4:e1:1e:95:5a:85	1.5.0.0/ 8.8.0/1.1.85	94ms	
\checkmark	UA-5231M	UA-Series-68c90b.4d6cc	192.168.82.201:80	68:c9:0b:e4:d6:cc	1.5.0.2/ 8.8.0/1.1.85	94ms	
	BRK-2841M	ICPDAS-BRK-2841M	192.168.255.60:80	00:0d:e0:18:2b:03	1.1.0.0	172ms	
	BRK-2841M	BRK-2841M-8461	192.168.84.61:80	00:0d:e0:18:2b:01	1.1.0.0	172ms	
	U-7526M	000de01820827000	92.168.82.202:80	00:0d:e0:b0:f0:00	13.3.0.0 / 16.10	188ms	

Figure 5-13 Product Web Page (Checked Modules)

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		≡ CICP DAS Q & Ø
HOME > PRODUCTS > IIoT > Controller/Server > Commu	INCIME > PRODUCTS > Remote I/O Module and Unit > Etherner OPC UA I/O Module > U/IS26M	RUDIE > PRODUCTS > ItoF > Controller/Server > MQTT Broker > BRX 2913M
UA-5231	U-7526M	BRK-2841M
ItoT Communication Server with 1 Etherner Port	NOW OPC UA //O Module with 2-ch DI, 2-ch DO, 6-ch AI, 2-ch Ethornet Switch Duested: Dueste	Available soon ItoT MQTT Communication Server with Quad-core ARM CPU and 2 Ethernet Ports Expense Upgeneee Upgeneee Upgeneee ToP
To provide you with a better and more satisfying service, this website ut coexies. Passe Click here to learn about these motios and how to a closing this stendow or centinuing to browse this website, you are agree	To provide you with a better and more satisfying service, this website utilize cookies. Please Click here to learn about these cookies and how to char clocing this window or continuing to browsie this website, you are agreent	To provide you with a better and more satisfying service, this website utilizes thirds party profiling. cookies, Piesse Click here to learn about these cookies and how to change your settings. By closing this window or contrivuing to bower this website, you are agrieving to our use of these

> Export Search Information

Click the [Export Search Information] button to export the displayed data as an Excel file. The exported file name will be used as the year, month, day, hour, and minute.

🙀 EZ-UAQ Utility	n n n n n n n n n n n n n n n n n n n											
Language:	English - Q	Module Select Module	9	•								
Basic Advanced Upload Download Certificate												
- Module - File												
Double click o	n Module Name or IP	Address to open the we	b interface of Modul	e.								
Select All	Module Name	Host Name	IP Address	MAC Address	Version	Response Time						
	UA-5231(M)	UA-Series-f4e11e954e4c	192.168.85.216:80	f4:e1:1e:95:4e:4c	1.5.0.0/ 8.8.0/1.1.85	31ms						
	UA-5231(M)	UA-Series-f4e11e955a85	192.168.255.102:80	f4:e1:1e:95:5a:85	1.5.0.0/ 8.8.0/1.1.85	110ms						
	UA-5231M	UA-Series-68c90be4d6cc	192.168.82.201:80	68:c9:0b:e4:d6:cc	1.5.0.2/ 8.8.0/1.1.85	110ms						
	UA-5231	UA-Series-1442fca93039	192.168.101.2:80	14:42:fc:a9:30:39	1.4.6.32/ 8.5.0/1.1.85	125ms						
	BRK-2841M	ICPDAS-BRK-2841M	192.168.255.60:80	00:0d:e0:18:2b:03	1.1.0.0	125ms						
	BRK-2841M	BRK-2841M-8461	192.168.84.61:80	00:0d:e0:18:2b:01	1.1.0.0	235ms						
	U-7526M	000de01820827000	192.168.82.202:80	00:0d:e0:b0:f0:00	13.3.0.0 / 16.10	235ms						
	U-7560M	000de01821027000	192.168.81.100:80	00:0d:e0:18:21:02	14.0.0.0 / 16.10	235ms						
	U-7526M	000de01820117000	192.168.102.1:80	00:0d:e0:18:20:11	12.0.0.0 / 15.9	328ms						

Figure 5-14 Export Search Information Page

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2	UA-5231(M)	UA-Series	-f4e11e954e4c	192.168.85.216:80	f4:e1:1e:95:4e:4c	1.5.0.0/ 8.8.0/1.	1.85	31ms				
3	UA-5231(M)	UA-Series	-f4e11e955a85	192.168.255.102:80	f4:e1:1e:95:5a:85	1.5.0.0/ 8.8.0/1.	1.85	110ms				
4	UA-5231M	UA-Series	-68с90Ъе4дбсс	192.168.82.201:80	68:c9:0b:e4:d6:cc	1.5.0.2/ 8.8.0/1.	1.85	110ms				
5	UA-5231	UA-Series	-1442fca93039	192.168.101.2:80	14:42:fc:a9:30:39	1.4.6.32/ 8.5.0/1	l.1.85	125ms				
б	BRK-2841M	ICPDAS-E	3RK-2841M	192.168.255.60:80	00:0d:e0:18:2b:03	1.1.0.0		125ms				
7	BRK-2841M	BRK-2841	M-8461	192.168.84.61:80	00:0d:e0:18:2b:01	1.1.0.0		235ms				
8	U-7526M	000de0182	20827000	192.168.82.202:80	00:0d:e0:b0:f0:00	13.3.0.0 / 16.10		235ms				
9	U-7560M	000de0182	21027000	192.168.81.100:80	00:0d:e0:18:21:02	14.0.0.0 / 16.10		235ms				
10	U-7526M	000de0182	20117000	192.168.102.1:80	00:0d:e0:18:20:11	12.0.0.0 / 15.9		328ms				
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Figure 5-15 Exported Search Information (xlsx File)

Import Search Information

Click the "Import Search Information" button, then click on the data to compare (Excel files exported from previous or other computers). The system will automatically perform a comparison with the retrieved data so far.

🙀 EZ-UAQ Utility	ý										
🌐 Languag	e: English - C	Kodule Select Modul	e	•							
Basic	Advanced Uploa	ad Download C	Certificate								
- Module - File											
Double click	on Module Name or I	P Address to open the we	eb interface of Mod	lule.							
Select All	Module Name	Host Name	IP Address	MAC Address	Version	Response Time					
	UA-5231(M)	UA-Series-f4e11e954e4c	192.168.85.216:80	f4:e1:1e:95:4e:4c	1.5.0.0/ 8.8.0/1.1.85	31ms					
	UA-5231(M)	UA-Series-f4e11e955a85	192.168.255.102:80	f4:e1:1e:95:5a:85	1.5.0.0/ 8.8.0/1.1.85	110ms					
	UA-5231M	UA-Series-68c90be4d6cc	192.168.82.201:80	68:c9:0b:e4:d6:cc	1.5.0.2/ 8.8.0/1.1.85	110ms					
	UA-5231	UA-Series-1442fca93039	192.168.101.2:80	14:42:fc:a9:30:39	1.4.6.32/ 8.5.0/1.1.85	125ms					
	BRK-2841M	ICPDAS-BRK-2841M	192.168.255.60:80	00:0d:e0:18:2b:03	1.1.0.0	125ms					
	BRK-2841M	BRK-2841M-8461	192.168.84.61:80	00:0d:e0:18:2b:01	1.1.0.0	235ms					
	U-7526M	000de01820827000	192.168.82.202:80	00:0d:e0:b0:f0:00	13.3.0.0 / 16.10	235ms					
	U-7560M	000de01821027000	192.168.81.100:80	00:0d:e0:18:21:02	14.0.0.0 / 16.10	235ms					
	U-7526M	000de01820117000	192.168.102.1:80	00:0d:e0:18:20:11	12.0.0.0 / 15.9	328ms					
	F	igure 5-16 Expo	rt Search Inf	ormation Page	6						

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After the above steps are completed, the Module Data Comparison window appears. In the figure below, "Search Module" shows the current data. Any added or missing module will be highlighted with a red line after comparison with previous data or data from other computers. The following image indicates that two modules have been added.

h Mo	odule						
ex	Module Name	Host Name	IP Address	MAC Address	Version	Response Time	Notes
	UA-2841M	UA-2841M-000de	192.168.1.103:80	00:0d:e0:18:20:0d	1.4.2.1/ 7.5.0/1.1.81	16ms	
	UA-2241M	UA-Series-907065	192.168.74.20:80	90:70:65:40:74:ed	1.4.6.0/ 7.8.0/1.1.85	47ms	
	UA-5231	UA-Series-1442fc	192.168.101.2:80	14:42:fc:a9:30:39	1.4.2.0/ 6.6.0/1.1.81	47ms	
	UA-5231	UA-Series-a0f6fd4	192.168.1.63:80	a0:f6:fd:48:91:8f	1.4.6.0/ 7.8.0/1.1.85	63ms	
	UA-5231(M)	UA-Series-2c6b7d	192.168.82.90:80	2c:6b:7d:44:5e:07	1.4.6.4 / 7.8.0/1.1.85	63ms	
	UA-5231(M)	UA-Series-68c90b	192.168.1.201:80	68:c9:0b:e4:d6:cc	1.4.6.0/ 7.8.0/1.1.85	125ms	
	UA-5231M-4GE	UA-Series-684749	192.168.85.212:80	68:47:49:ec:41:d9	1.4.6.5/ 7.8.0/1.1.85	125ms	
	UA-2241M	UA-Series-684749	192.168.85.200:80	68:47:49:e4:86:0f	1.4.6.0/ 7.8.0/1.1.85	125ms	
	BRK-2841M	ICPDAS-UA-2841M	192.168.1.91:80	00:0d:e0:18:2b:0e	1.1.0.0	125ms	
	U-7526M	000de01820827000	192.168.1.202:80	00:0d:e0:18:20:82	12.0.0.0 / 9.7	219ms	
	11-7526M	000do01920957000	102160 01 100.00	00.040.10.20.05	deb	212	
		0000001820837000	192.108.81.100.80	00:00:00:00:18:20:85	debug / 15.9	219ms	
: And	Detailed Information2	024_09_06_17_04.xlsx	192.108.81.100.80	00:00:e0:18:20:85	debug/15.9	219ms	
And ex	Detailed Information2	024_09_06_17_04.xlsx	IP Address	Mac Address	debug / 15.9	Response Time	Link-Local
And ex	Detailed Information2 Module Name UA-5231(M)	024_09_06_17_04.xlsx Host Name UA-Series-2c6b7d	IP Address 192.168.82.90:80	Mac Address 2c:6b:7d:44:5e:07	Version 1.4.6.4 / 7.8.0/1.1.85	Response Time 32ms	Link-Local
And ex	Detailed Information2 Module Name UA-5231(M) UA-5231(M)	000000120037000 024_09_06_17_04.xlsx Host Name UA-Series-2c6b7d UA-Series-68c90b	IP Address 192.168.81.100.00 192.168.82.90:80 192.168.1.201:80	Mac Address 2c:6b:7d:44:5e:07 68:c9:0b:e4:d6:cc	Version 1.4.6.4 / 7.8.0/1.1.85 1.4.6.0 / 7.8.0/1.1.85	219ms Response Time 32ms 47ms	Link-Local
And ex	Detailed Information2 Module Name UA-5231(M) UA-5231(M) UA-5231	024_09_06_17_04.xlsx Host Name UA-Series-2c6b7d UA-Series-1442fc	IP Address 192.168.82.90:80 192.168.1201:80 192.168.101.2:80	Mac Address 2c:6b:7d:44:5e:07 68:c9:0b:e4:d6:cc 14:42:fc:a9:30:39	Version 1.4.6.4/7.8.0/1.1.85 1.4.6.0/7.8.0/1.1.85 1.4.2.0/ 6.6.0/1.1.81	Response Time 32ms 47ms 47ms	Link-Local
And ex	Detailed Information2 Module Name UA-5231(M) UA-5231 UA-5231 UA-2241M	024_09_06_17_04.xlsx Host Name UA-Series-266b7d UA-Series-68c90b UA-Series-142fc UA-Series-142f2	IP Address 192.168.82.90:80 192.168.1201:80 192.168.101.2:80 192.168.85.200:80	Mac Address 2c:6b:7d:44:5e:07 68:c9:0b:e4:d6:cc 14:42:fc:a9:30:39 68:47:49:e4:86:0f	Version 1.4.6.4 / 7.8.0/1.1.85 1.4.6.0 / 7.8.0/1.1.85 1.4.2.0/ 6.6.0/1.1.81 1.4.6.0 / 7.8.0/1.1.85	Response Time 32ms 47ms 63ms	Link-Local
And ex	Detailed Information2 Module Name UA-5231(M) UA-5231(M) UA-5231 UA-2241M UA-2241M	000000122037000 0024_09_06_17_04.xlsx Host Name UA-Series-26607d UA-Series-68209b UA-Series-684749 UA-Series-684749 UA-Series-907065	IP Address 192.168.82.90:80 192.168.1.201:80 192.168.101.280 192.168.5.200:80 192.168.74.20:80	Mac Address 2c:6b:7d:44:5e:07 68:c9:0b:e4:d6:cc 14:42:fc:a9:30:39 68:47:49:e4:86:0f 90:70:65:40:74:ed	Version 1.4.6.4 / 7.8.0/1.1.85 1.4.6.0 / 7.8.0/1.1.85 1.4.2.0 / 6.6.0/1.1.81 1.4.6.0 / 7.8.0/1.1.85 1.4.6.0 / 7.8.0/1.1.85	Response Time 32ms 47ms 47ms 63ms 63ms	Link-Local
And	OF/S2001 Detailed Information2 Module Name UA-5231(M) UA-5231 UA-5231 UA-5231 UA-5231 UA-5241M UA-5231M-4GE	000000122037000 1024_09_06_17_04.xlsx Host Name UA-Series-2c6b7d UA-Series-68270b UA-Series-1442fc UA-Series-684749 UA-Series-684749	IP2.168.81.100.80 IP2.168.82.90:80 192.168.102.80 192.168.102.80 192.168.52.00:80 192.168.85.200:80 192.168.85.212:80	Mac Address 2c:6b:7d:44:5e:07 68:c5)0b:e4:d6:cc 14:42:fc:a9:30:5 68:47:49:e4:86:0f 90:70:65:40:74:ed 68:47:49:ec:41:d9	Version 1.4.6.4 / 7.8.0/1.1.85 1.4.6.0 / 7.8.0/1.1.85 1.4.2.0 / 6.6.0/1.1.81 1.4.6.0 / 7.8.0/1.1.85 1.4.6.0 / 7.8.0/1.1.85 1.4.6.4 / 7.8.0/1.1.85	Response Time 32ms 47ms 47ms 63ms 63ms	Link-Local
And	OF/323M Detailed Information2 Module Name UA-5231(M) UA-5231(M) UA-5231 UA-5231 UA-5231 UA-5231 UA-2241M UA-5231M-4GE BRK-2841M	000000122037000 024_09_06_17_04.xlsx Host Name UA-Series-2c6b7d UA-Series-68c90b UA-Series-684749 UA-Series-684749 UA-Series-684749 ICPDAS-UA-2841M	IP Address 192.168.82.90:80 192.168.12.01:80 192.168.10.2:80 192.168.52.02:80 192.168.5.212:80 192.168.5.212:80 192.168.19.2180	Mac Address 2c:6b:7d:44:5e:07 68:c9:0b:e4:d6:cc 14:42:fc:a9:30:39 68:47:49:e4:86:0f 90:70:65:40:74:ed 68:47:49:ec:41:d9 00:0d:e0:18:2b:0e	Version 1.4.6.4 / 7.8.0/1.1.85 1.4.6.0 / 7.8.0/1.1.85 1.4.2.0 / 6.6.0/1.1.81 1.4.6.0 / 7.8.0/1.1.85 1.4.6.0 / 7.8.0/1.1.85 1.4.6.4 / 7.8.0/1.1.85 1.4.6.4 / 7.8.0/1.1.85 1.4.6.4 / 7.8.0/1.1.85	Response Time 32ms 47ms 63ms 63ms 125ms	Link-Local
And ex	OF/SEMI Detailed Information2 Module Name UA-5231(M) UA-5231 UA-5231 UA-2241M UA-2241M UA-5231M-4GE BRK-2841M U-7526M	024_09_06_17_04.xlsx Host Name UA-Series-2c6b7d UA-Series-68c90b UA-Series-68d749 UA-Series-684749 UA-Series-684749 UA-Series-684749 ICPDAS-UA-2841M 000de01820827000	192.168.81.100.80 192.168.82.90:80 192.168.1201:80 192.168.101.2:80 192.168.520:80 192.168.85.20:80 192.168.191:80 192.168.191:80 192.168.191:80 192.168.191:80	Mac Address 2c:6b:7d:44:5e:07 68:c9:0b:e4:d6:cc 14:42:fc:a9:30:39 68:47:49:e4:86:07 68:47:49:ec4:1:d9 00:0d:e0:18:2b:0e 00:0d:e0:18:2b:0e	Version 1.4.6.4 / 7.8.0/1.1.85 1.4.6.0/ 7.8.0/1.1.85 1.4.6.0/ 7.8.0/1.1.85 1.4.6.0/ 7.8.0/1.1.85 1.4.6.0/ 7.8.0/1.1.85 1.4.6.4 / 7.8.0/1.1.85 1.4.6.0 / 9.7	Response Time 32ms 47ms 63ms 63ms 125ms 172ms	Link-Local
And	OF/SEMI Detailed Information2 Module Name UA-5231(M) UA-523(M) UA-523(M) UA-523(M) UA-523(M) UA-523(M) UA-523(M) UA-523(M)	024_09_06_17_04.xlsx Host Name UA-Series-266b7d UA-Series-68209b UA-Series-684749 UA-Series-684749 UA-Series-684749 ICPDAS-UA-2841M 000de01820827000 000de01820857000	IP Address 192.168.82.90:80 192.168.1.201:80 192.168.1.01:80 192.168.5.200:80 192.168.85.200:80 192.168.85.212:80 192.168.1.91:80 192.168.1.92:80 192.168.1.00:80	Mac Address 2c:6b:7d:44:5e:07 68:c9:0b:e4:d6:cc 14:42:fc:a9:30:39 68:47:49:e4:86:0f 90:70:65:40:74:ed 68:47:49:ec:41:d9 00:0d:e0:18:20:82 00:0d:e0:18:20:82	Version 1.4.6.4 / 7.8.0/1.1.85 1.4.6.0 / 7.8.0/1.1.85 1.4.2.0 / 6.6.0/1.1.81 1.4.6.0 / 7.8.0/1.1.85 1.4.6.0 / 7.8.0/1.1.85 1.4.6.4 / 7.8.0/1.1.85 1.1.0.0 12.0.0.0 / 9.7 debug / 15.9	Response Time 32ms 47ms 63ms 63ms 125ms 172ms 204ms	Link-Local
c And lex	OF/SEMI Detailed Information2 Module Name UA-5231(M) UA-5231(M) UA-5231 UA-5231 UA-5231 UA-5231 UA-5231 UA-5231 UA-5231 UA-5231 UA-5231 UA-5241M UA-5231M-4GE BR<-2841M	000000122037000 00000122037000 Host Name UA-Series-2c6b7d UA-Series-68270b UA-Series-682749 UA-Series-682749 UA-Series-684749 ICPDAS-UA-2841M 000de01820827000 000de01820857000 000de01820857000	IP2.168.81.100.80 IP2.168.82.90:80 IP2.168.1.201.80 IP2.168.1.201.80 IP2.168.2.200.80 IP2.168.5.200.80 IP2.168.5.212:80 IP2.168.1.202.80 IP2.168.1.100.80 IP2.168.1.00:80 IP2.168.1.100.80 IP2.168.1.100.80 IP2.168.1.100.80	Mac Address 2c:6b:7d:44:5e:07 68:c9:0b:e4:d6:cc 14:42:fc:a9:30:39 68:47:49:e4:86:0f 90:70:65:40:74:ed 68:47:49:ec:41:d9 00:0d:e0:18:20:282 00:0d:e0:18:20:282 00:0d:e0:18:20:285 00:0d:e0:18:20:285	Version 1.4.6.4 / 7.8.0/1.1.85 1.4.6.0/ 7.8.0/1.1.85 1.4.6.0/ 7.8.0/1.1.85 1.4.6.0/ 7.8.0/1.1.85 1.4.6.0/ 7.8.0/1.1.85 1.4.6.4 / 7.8.0/1.1.85 1.1.0.0 12.0.0.0 / 9.7 debug / 15.9 13.0.00 / 15.9	Response Time 32ms 47ms 63ms 63ms 63ms 125ms 172ms 204ms 219ms	Link-Local

Figure 5-17 Module Data Comparison Window

5.2.2 Advanced

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.

🙀 EZ-UAQ Utility						- 🗆 ×
🕀 Language: English	- Q Module Select N	lodule	•			About
Basic Advanced	Upload Download	Certificate				
Timout setting — Mo	odule		Langu	age Setting —		
800 ms 🦸	Details 🗖 🗖	educe Pro	tocol	Add		
	· · · · ·	CPU sec		Reset		
Double click on Module	Name or IP Address to open t	he web interface of Modu	ıle.			
Select All Module N	ame Host Name	IP Address	MAC Address	Version	Response Time	Notes
UA-5231(N	I) UA-Series-f4e11e95	4e4c 192.168.85.216:80	f4:e1:1e:95:4e:4c	1.5.0.0/ 8.8.0/1.1.85	31ms	
UA-5231(N	I) UA-Series-f4e11e95	5a85 192.168.255.102:80	f4:e1:1e:95:5a:85	1.5.0.0/ 8.8.0/1.1.85	110ms	

Figure 5-18 Search Timeout Settings Page

> Module Details

[Module Details]: Check the Module checkbox and click the [Module Details] button to view the details of the module.

Details shows the TCP/UDP Internet Protocols, the occupied procotols 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.

👯 EZ-UAQ Utility							- 🗆 ×				
🕀 Language:	English - Q	Module Select Module	9	•			About				
Basic A	dvanced Upload	d Download C	Certificate								
Timout setting — Module — Language Setting —											
800	ms Details	Reduce	e Prot	ocol	Add						
		сри	secu	urity	Reset						
Double click or	n Module Name or IP	Address to open the we	b interface of Modul	e.							
Select All	Module Name	Host Name	IP Address	MAC Address	Version	Response Time	Notes				
	UA-5231M	UA-Series-68c90be4d6cc	192.168.82.201:80	68:c9:0b:e4:d6:cc	1.5.0.2/ 8.8.0/1.1.85	110ms					
	UA-5231	UA-Series-1442fca93039	192.168.101.2:80	14:42:fc:a9:30:39	1.4.6.32/ 8.5.0/1.1.85	125ms					
	BRK-2841M	ICPDAS-BRK-2841M	192.168.255.60:80	00:0d:e0:18:2b:03	1.1.0.0	125ms					
	BRK-2841M	BRK-2841M-8461	192.168.84.61:80	00:0d:e0:18:2b:01	1.1.0.0	235ms					
	11-7526M	000de01820827000	102169 92 202-90	00.00.00.00.00.00	12200/1610	225mc					



🥵 EZ-UAQ Utility							- 🗆 ×
Language:	English - Q	Module Select Module	9	•			About
Basic A	Advanced Upload	d Download C	Certificate				
- Timout settin	ng — Module —			Langua	age Setting —		
800	ms Dotails	Reduc	e Prot	ocol	Add		
000		сри	secu	ırity 🕞	Reset		
Double click o	n Module Name or IP	Address to open the we	b interface of Modul	e.			
Select All	Module Name	Host Name	IP Address	MAC Address	Version	Response Time	Notes
	UA-5231M	UA-Series-68c90be4d6cc	192.168.82.201:80	68:c9:0b:e4:d6:cc	1.5.0.2/ 8.8.0/1.1.85	110ms	
	UA-5231	UA-Series-1442fca93039	192.168.101.2:80	14:42:fc:a9:30:39	1.4.6.32/ 8.5.0/1.1.85	125ms	
	BRK-2841M	ICPDAS-BRK-2841M	192.168.255.60:80	00:0d:e0:18:2b:03	1.1.0.0	125ms	
	BRK-2841M	BRK-2841M-8461	192.168.84.61:80	00:0d:e0:18:2b:01	1.1.0.0	235ms	
🔛 Get mo	odule(s) details	5 00de01820827000	192.168.82.202:80	00:0d:e0:b0:f0:00	13.3.0.0 / 16.10	235ms	

Figure 5-20 Module Details Page (2)

- \diamond IPv6: IP address, which is only available in the UA series.
- Alias: Field information for identifying module functions or areas to facilitate management. (Please go to the web interface first to set it up, and after complete the setting, it will be displayed in the module details.) Refer to the next page for instructions for Alias Configuration.

Click the "Export" button, and all the module details and basic information searched will be merged and converted into a Excel file for the users to save.



Figure 5-21 Module Details Page (3)

Desktop			-	- 🗆	×
· > • •	🔜 > This PC > Desktop	ٽ ~	Search Desktop		Q
^	Date	Name	Туре	Size	T ^
📌 Quick a	🔒 2024/12/5 下午 04:16	win-graf_11.0_user_manual_tc.pdf	Adobe Acrobat 文	6,963 KB	
📃 De 🖈	🛃 2024/11/14 上午 10:15	eSearch_Utility_setup_Windows_v130.exe	Application	3,840 KB	
- Do ★	📱 2025/2/18 下午 02:46	EZ-UAQ Utility V3.0.4(Beta).zip	Compussed (zipp	11,549 KB	
Do 🖈	📱 2025/2/12 下午 05:23	Modbus To MQTT.zip	ompressed (zipp	123 KB	
E Pic 🖈	🖬 2025/2/19 下午 04:18	Basic And Detailed Information2025_02_19_16_18.xlsx	Microsoft Excel 工	5 KB	~
× .	<				>
ems 1 iten	n selected 4.89 KB				-

Figure 5-22 Exported module details (xlsx file name)

E	3 5-	ð - [þ , -	÷		Ba	asic And De	tailed Infor	mation2025	5_02_19_16_	18.xlsx - Exe	cel	6	ē —		×
	File H	lome	nsert	Pag	e Layout	Formulas	Data	Review	View I	Help Ç	Tell me w	vhat you war	nt to do	8	\square
A	L	•	×	~	fx Mo	dule Nam	.e								¥
	А	В		С	D	Е	F	G	Н	Ι	J	K	L	М	
1	Module N	Host Nar	ne IP A	Address	Mac Addre	Version	Response '	Link-Loca	Alias	TCP/UDP	Protocol	Port	Notes		
2	UA-5231N	UA-Serie	s 192	. 168.82	68:c9:0b:e4	1.5.0.2/ 8.8	110ms	fe80::6ac9	Reading ro	TCP/UDP	HTTP/HT	80/8843/48			
3	UA-5231	UA-Serie	s 192	.168.10	14:42:fc:a9	1.4.6.32/8	125ms								
4	BRK-284	ICPDAS	-E 192	.168.25	00:0d:e0:1	1.1.0.0	125ms								
5	BRK-284	BRK-284	1 192	.168.84	00:0d:e0:1	1.1.0.0	235ms								
б	U-7526M	000de018	32 192	.168.82	00:0d:e0:b	13.3.0.0 /	235ms	N/A		TCP/UDP	/HTTP/H1	80/8888/48			
7															-
		Basic	And [Detaile	d ()				4					Þ
Rea	idy 🗘 Acce	ssibility: Goo	d to go							E		巴		+ 1	00%

Figure 5-23 Exported module details (xlsx file)

→ Alias Configuration:

UA Communication Server: Open the Web System Setting->EZ-UAQ Utility->Alias Settings>Save, then you can set an alias for the UA series.

✓ ③ 192.168.82.201/Main.html	× +			- 🗆 🗙
← → C ▲ 不安全 192.	168.82.201/Main.html		<u>G</u> r	🖈 😩 :
UA-2200/520	0	Function Wizard (Click	here)	
DAS ICP DAS CO,. LTD.	ion Server	T UNCLUIT WIZARD (CIICK	inere)	
		Usage : CPU 15%	Memory 30.25% SD Card	🚽 Log Out
System Setting Module	Setting IoT Platform Se	tting Convert Setting Advan	ced Setting Logger Setting	1
I/O Status File Setting				
System Setting EZ-UAQ Utility				
Controller Service Setting	Password Setting			
Time Setting	Password	•••••		
Network Setting	Confirm Password			
Account Setting				
Boot		Save		
COM Port Interface Setting	Alias Settings			
Web and Secure	Alias			
EZ-UAQ Utility		Save		

Figure 5-24 UA Communication Server: Alias Configuration (1)

ICP UA-2200/520 IIoT Communicat	0 ion Server	¢	Function Wiz	ard (Cli	ck here)		~
			Usage :	CPU 13%	Memory 30.18%	SD Card	🛃 Log Out
System Setting Module	Setting IoT Platform Se	tting Conv	vert Setting	Adva	anced Setting	Logger Setting	
I/O Status File Setting							
System Setting EZ-UAQ Utility							
Controller Service Setting	Password Setting						
Time Setting	Password	•••••					
Network Setting	Confirm Password	•••••					
Account Setting				1			
Boot			Save	J			
COM Port Interface Setting	Alias Settings						
Web and Secure	Alias	Reading room	1]		
EZ-UAQ Utility			Save	Succe	SS.		

Figure 5-25 UA Communication Server: Alias Configuration (2)

UA I/O Module: Open the Web Advanced Settings->EZ-UAQ Utility->Nickname>Save, then you can set an alias for the UA I/O series.

♥ 🕼 U-7526M	× +	-	
← → C 🧕	不安全 192.168.82.202	९ 🕁	😩 :
ICP UA I/O			Log out •
DAS ICP DAS CO,.	LTD.		
System Settings	Module Settings OPC UA Settings MQTT Settings Advanced Settings		
Event Log	EZ-UAQ Utility Settings		
 Main Settings 	Password		
 Messages → Line 	Confirm Password		
Rule Settings			
 Main Settings 	Nickname		
 I/O Control 			11
 Link-Up 			
Schedule	Save		

Figure 5-26 UA I/O Module: Alias Configuration (1)

ICP DAS CO.	LTD.	Log out •
System Settings	Module Settings OPC UA Settings MQTT Settings Advanced Settings	
Event Log	EZ-UAQ Utility Settings	
 Main Settings 	Password	
• Messages \rightarrow Line	Confirm Password	
Rule Settings		
 Main Settings 	Nickname Conference room	
 I/O Control 		18
 Link-Up 		
Schedule	Save	

Figure 5-27 UA I/O Module: Alias Configuration (2)

BRK Communication Server : Open the Web System Setting > Utility>Alisa> Save, then you can set an alias for the BRK series.

•	3 192.168.84.61:8000/Utility/?	×	+						_		×
←	→ C ▲ 不安全 192	2.168.84.61	:8000/Utility	//?		©=	G	Q	☆		:
	ICP BRK Ser	ries						L	og Out]	
	System setting MC	QTT setti	ing	Database	Advanced setting						
	Account		Utility								_
	Network			Password							
	Time			,.	Save						
	Language										
	Project file		Alias	Alias							
	Utility				Save						

Figure 5-28 BRK Communication Server: Alias Configuration (1)

ICP BRK	Series Broker o, LTD.		Log Out
System setting	MQTT setti	ng Database	Advanced setting
Account		Utility	
Network		Password	
Network		Verify Password	
Time			Save
Language			
Project file		Alias	
		Alias	Conference room
Utility			Save Success

Figure 5-29 BRK Communication Server: Alias Configuration (2)

> Reduce CPU

* 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]: While module CPU is in high usage, click the [Reduce CPU] 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] button. The window shown in Figure 5-31 will appear. Please click Yes.

🙀 EZ-UAQ Utility									
🕀 Language:	Language: English • Q Module Select Module •								
Basic A	dvanced	Uploa	d Download	Certificate					
┌ Timout settin	g — _ Mod	ule ——					-Langua	ge Setting	
		-	Dec. Dec	luce	Drot	acal		Add	
800	ms 🛛 🤨	Details	s 🔤 Ket	PU	6 sect	irity			
						, internet of the second se		Reset	
Double click or	n Module Na	me or IP	Address to open the	e web interfac	e of Modul	e.			
Select All	Module Nam	ne	Host Name	IP Address	s .	MAC Address	6	Version	Response Time
	UA-5231M		UA-Series-68c90be4d6	5cc 192.168.82	.201:80	68:c9:0b:e4:d6	5:cc	1.5.0.2/ 8.8.0/1.1.8	5 31ms
	BRK-2841M		ICPDAS-BRK-2841M-8	4 192.168.84	.81:80	00:0d:e0:18:2k	0:11	1.1.0.0	172ms
	U-7526M		000de01820827000	192.168.82	.202:80	00:0d:e0:b0:f0	:00	13.0.0.0 / 16.10	172ms
	U-7526M		000de01820117000	192.168.10	2.1:80	00:0d:e0:18:20):11	12.0.0.0 / 15.9	265ms

Figure 5-30 Reduce CPU usage (1)



Figure 5-31 Reduce CPU usage (2)

About password settings, please refer to <u>Appendix B</u>: 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 recommand 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** ", indicating that the operation has started.

Reference Password	_	\times
Password		

40		

Figure 5-32 Reduce CPU usage (3)

🙀 EZ-UAQ Utility – 🗆							– 🗆 X
🜐 Language: English - Q Module Select Module -							About
Basic	Advanced Uplo	ad Download (Certificate				
– Timout setti	ing Module —			Langua	age Setting		
					Add		
800	ms 🕥 Deta	ls Reduc	e Prot	ocol			
		* CPU	secu	urity (P)	Docot		
				.	Reset		
Double click o	on Module Name or I	P Address to open the we	eb interface of Modul	e.			
Select All	Module Name	Host Name	IP Address	MAC Address	Version	Response Time	Notes
	UA-5231M	UA-Series-68c90be4d6cc	192.168.82.201:80	68:c9:0b:e4:d6:cc	1.5.0.2/ 8.8.0/1.1.85	31ms	
	BRK-2841M	ICPDAS-BRK-2841M-84	192.168.84.81:80	00:0d:e0:18:2b:11	1.1.0.0	172ms	
	U-7526M	000de01820827000	192.168.82.202:80	00:0d:e0:b0:f0:00	13.0.0.0 / 16.10	172ms	
😯 Reduc	ce CPU	000de01820117000	192.168.102.1:80	00:0d:e0:18:20:11	12.0.0.0 / 15.9	265ms	

Figure 5-33 Reduce CPU usage (4)

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

🥵 EZ-UAQ Utility									-	
🕀 Language	: English	- Q	Module Select Modul	e	-					Abou
Basic	Advanced	Upload	Download (Certificate						
┌ Timout setti	ng — Mod	lule ——			<u></u>	angua	ige Setting			
			Reduc	e Prot			Add			
800	ms	Details	CPU	sect	urity	D				
						Θ	Reset			
Double click o	on Module Na	ame or IP	Address to open the we	eb interface of Modul	e.				_	
Select All	Module Nan	ne	Host Name	IP Address	MAC Address		Version	Response Time	Notes	
	UA-5231M		UA-Series-68c90be4d6cc	192.168.82.201:80	68:c9:0b:e4:d6:co	•	1.5.0.2/ 8.8.0/1.1.85	31ms	CPU usage reduction	n success
	BRK-2841M		ICPDAS-BRK-2841M-84	192.168.84.81:80	00:0d:e0:18:2b:1	1	1.1.0.0	172ms		
	U-7526M		000de01820827000	192.168.82.202:80	00:0d:e0:b0:f0:00)	13.0.0.0 / 16.10	172ms		
	U-7526M		000de01820117000	192.168.102.1:80	00:0d:e0:18:20:1	1	12.0.0.0 / 15.9	265ms		

Figure 5-34 Reduce CPU usage (5)

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

UA-2200/520	0							
DAS ICP DAS CO., LTD.	ion Server	Function W	Function Wizard (Click here)					
		Usage :	CPU 13% Memory 11.83%	SD Card	🛃 Log Out			
System Setting Module	Setting IoT Platform Setting	Convert Setting	Advanced Setting	Logger Setting				
I/O Status File Setting								
System Setting Controller Serv	vice Setting							
Controller Service Setting	Function Status							
Time Setting	Run Project	⊖Run						
Network Setting	MQTT Broker	⊖Run) Stop						
Account Setting								
Boot								
COM Port Interface Setting	System Log	⊖Run) Stop						
Web and Secure								
EZ-UAQ Utility								

Figure 5-35 UA communication server web interface (function that will be disabled when CPU utilization is reduced)

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

)				Log out -
System Settings	Module Settings	OPC UA Settings	MQTT Settings	Advanced Settings	
Overview	Function Ove	rview			
I/O Settings		OPC UA Server	Enable		
Scaling		OPC UA Client	Enable		
I/O Status Project File		MQTT Client	Enable		
3		RESTful API Server	Enable		
		IoTstar Settings	Enable		
		Event Log	Enable		
	Download the	file from device	;		
		Common Settings	Download		

Figure 5-36 UA I/O communication server web interface (function that will be disabled when CPU utilization is reduced)

Protocol Security

[Protocol Security]: This function displays the security of module protocols, including HTTPS, OPC UA Server/Client, and MQTT Broker/Client. It indicates whether the protocol or protocol function is enabled to use the encrypted certificate feature. The icons below provide further explanation.

lcon	Description			
0	Feature not enabled			
	Feature enabled but encryption and certificate functions are not used			
	Feature enabled and encryption and certificate functions are used			
Table 5-2 Module Protocol Security				

Step 1: First, select the module, then click the **[Protocol Security]** button. A password window will appear. Enter the EZ-UAQ Utility password set in the module configuration, and click OK.

🙀 EZ-UAQ Utili	ty								
🕀 Languag	ge: English - Q	Module Select Modul	e	•					
Basic	Advanced Uploa	d Download (Certificate						
⊤ Timout set	Timout setting — Module — Language Setting — Add								
				security		Reset			
Double click	on Module Name or IP	Address to open the w	eb interface of M	odule.					
Select All	Module Name	Host Name	IP Address	MAC Addre	ess	Version	Response Time		
	UA-5231M	UA-Series-68c90be4d6cc	192.168.82.201:80	68:c9:0b:e4:	d6:cc	1.5.0.2/ 8.8.0/1.1.85	94ms		
	BRK-2841M	ICPDAS-BRK-2841M-84	192.168.84.80:80	00:0d:e0:18:	2b:13	1.1.0.0	172ms		
	U-7560M	000de01821027000	192.168.81.100:80	00:0d:e0:18:	21:02	14.0.0.0 / 16.10	250ms		
	Figure 5-37 Protocol Security (1)								
		Password (***** OK							

Figure 5-38 Protocol Security (2)

Step 2: The interface will then display "**Retrieving Module Protocol Security**," indicating that the process has started. Once completed, the results will be shown in the "Module Protocol Security" window.

👫 EZ-UAQ Ut	ility								
🕀 Langua	⊕ Language: English → Q Module Select Module →								
Basic	Advanced	Upload	Download	Certificate					
Timout se	etting — Mod	lule			Lang	guage Setting			
800	ms 👩	Details	CPU Red	uce F	Protocol	Add			
		-			security	Reset			
Double clic	k on Module N	ame or IP A	ddress to open the	web interface of Mo	dule.				
Select All	I Module Nar	ne 🛛	Host Name	IP Address	MAC Address	Version	Response Time		
	UA-5231M	l	JA-Series-68c90be4d6	cc 192.168.82.201:80	68:c9:0b:e4:d6:cc	1.5.0.2/ 8.8.0/1.1.85	94ms		
	BRK-2841M	l.	CPDAS-BRK-2841M-84	192.168.84.80:80	00:0d:e0:18:2b:13	1.1.0.0	172ms		
🖑 Get l	Module Pr	otocol	Security 7000	192.168.81.100:80	00:0d:e0:18:21:02	14.0.0.0 / 16.10	250ms		
	Figure 5-39 Protocol Security (3)								
👫 Module	Protocol Security						- 🗆 X		
Modul	le Name 🕴 IP A	ddress	Https	OPCUA Server	OPCUA Client N	/IQTT Broker	MQTT Client		
UA-9	5231M 192.1	68.82.201	1	1		1	0		
-	Figure 5-40 Protocol Security (4)								

Language Setting

[Add]: Using the "Add Language" feature, users can add languages to the EZ-UAQ Utility.

Step1: Click the [Add] button to open the "Add Multiple Languages" window.



Figure 5-41 Language Settings - Add (1)

Step 2: First, enter the language you want to add in Add Language, then click [Copy English Word]. Use translation software to translate the English word into the language you want (e.g., Japanese) and copy it.

K Add Multiple Languages	- D X
Add Language : Japanese 1 Cor English	y 2 Paste Word Language Word Save
English Word	Languages Word
About	
Search	
Language:	
Module	
Double click on Module Name or IP Address to open t	
Select Module	
Product Page	
hide	

Figure 5-42 Language Settings – Add (2)

Step 3: Then click [Paste Language Word], and the Japanese text will be displayed in the table below Add Languages Word. Next, click[Save], and a window shown in Restart EZ-UAQ Utility message will appear; then click 'OK'.

🙀 Add Multiple Languages		- 🗆 X
Add Language : Japanese	Copy English Word	Save 2
English Word	Languages Word	^
About	情報	
Search	検索	
Language:	K EZ-UAQ Utility	<
Module		
Double click on Module Name or IP Ad	(ダブルクリックする
Select Module	Restart EZ-UAQ Utility	
Product Page		
hide		
unhide all	ок 3	
Import		

Figure 5-43 Language Settings - Add (3)

Step 4: Next, restart the software, and Japanese will appear in the language dropdown menu. Please select Japanese.

🥵 EZ-UAQ Utility						
🕀 Language: 🛛 E	English 🔹 🔍	Module Select Module	2	-		
Basic Ad	緊體中文 简体中文	Download C	ertificate			
Module	English apanese Prod Pag	uct Je Imp	port			
Double click on Module Name or IP Address to open the web interface of Module.						
Select All	lodule Name	Host Name	IP Address	MAC Address		

Figure 5-44 Language Settings - Add (4)

Step 5: The EZ-UAQ Utility software interface will automatically switch to Japanese.

🙀 EZ-UAQ U	Jtility							
(● 言語:	Japanese	- Q モジュ	ュール モジュールの選択	- 5				
基本	詳細	アップロード	ダウンロード	証明書				
- Ŧジュ-	- モジュール ファイル							
モジュール名または IP アドレスをダブルクリックすると、モジュールの Web インターフェイスが開きます。								
Select A	All Modul	e Name	Host Name	IP Address	MAC Address	Version		

Figure 5-45 Language Settings - Add (5)

[Reset]: If the newly added language is not functioning properly, users can reset the language settings to restore the factory default language file, using Japanese as an example.

*Note: Using the [Reset] function will remove all custom languages.

Step 1: Click the [Reset] button to open the "Reset Successful" message window.

🚜 EZ-UAQ Utility						
Language: English English	- Q Module Select Modul	e	-			
Basic Ad 繁體中文 简体中文	load Download (Certificate				
┌ Timout setting English			Langu	age Setting —		
800 ms	Details Reduc	e Prot	ocol	Add		
	CPU	seci		Reset 🚹		
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		

Figure 5-46 Language Settings – Reset (1)

Step 2: Then, click OK to restart the software and restore the language file to the factory default settings.

	🥵 EZ-UAQ Utility				
	Hanguage: English	Kodule Select Modul	le ·	•	
	Basic Ad ^{繁體中文} los	ad Download (Certificate		
🙀 EZ-UAQ Utility X	Timout setting English			Langua	ge Setting
	800 ms 🗿 Deta	Is Reduc	e Proto	ocol	Add
Reset successful			secu	rity	Reset
	Double click on Module Name or I	P Address to open the w	eb interface of Module	2.	
ок 1	Select All Module Name	Host Name	IP Address	MAC Address	Version

Figure 5-47 Language Settings – Reset (2)

5.2.3 Upload

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

* Warnings: To enable this feature, you must first set a password in the module settings to enhance information security. If no settings are made, the default password will be used. However, using the default password carries certain risks.

> 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 operational interface shows the update process for a single U-7526M module:

Step1: Click **l** to select the firmware package you want to update.

🕷 EZ-UAQ Utility	(-	
🕀 Languag	e: English	- Q Module Select Module	9	•				About
Basic	Advanced U	Jpload Download C	ertificate					
$_{\Gamma}$ File path —		Update						
C:\Users\R	C:\Users\RD6-Sandy\Deskto							
Double click	on Module Name	e or IP. \ddress to open the we	b interface of Mod	ule.				
Select All	Module Name	l ost Name	IP Address	MAC Address	Version	Response Time	Notes	
	UA-5231(M)	UA-Series-f4e11e954e4c	192.168.85.216:80	f4:e1:1e:95:4e:4c	1.5.0.0/ 8.8.0/1.1.85	16ms		
	UA-5231	UA-Geries-1442fca93039	192.168.101.2:80	14:42:fc:a9:30:39	1.4.6.32/ 8.5.0/1.1.85	94ms		
	UA-5231(M)	UA-Spries-f4e11e955a85	192.168.255.102:80	f4:e1:1e:95:5a:85	1.5.0.0/ 8.8.0/1.1.85	109ms		
	UA-5231M	UA-Selies-68c90be4d6cc	192.168.82.201:80	68:c9:0b:e4:d6:cc	1.5.0.2/ 8.8.0/1.1.85	109ms		
	BRK-2841M	ICPDAS BRK-2841M	192.168.255.60:80	00:0d:e0:18:2b:03	1.1.0.0	188ms		
	BRK-2841M	ICPDAS-1RK-2841M-84	192.168.84.81:80	00:0d:e0:18:2b:11	1.1.0.0	188ms		
	BRK-2841M	BRK-2841M-8461	192.168.84.61:80	00:0d:e0:18:2b:01	1.1.0.0	188ms		
	BRK-2841M	ICPDAS-BRA-2841M-84	192.168.84.80:80	00:0d:e0:18:2b:13	1.1.0.0	203ms		
	U-7526M	000de01820827000	192.168.82.202:80	00:0d:e0:b0:f0:00	13.3.0.0 / 16.10	203ms		
		Fia	ure 5-48 U	odate Firmv	vare (1)			

	i iguie e ie epiane		
👫 Open			×
\leftarrow \rightarrow \checkmark \uparrow \square \Rightarrow This	PC > Desktop > Firmware	✓ Ö Sea	rch Firmware 🔎
Organize 👻 New folder			::: - 🔟 ?
💻 This PC	^ Name	Date modified	Type Size
3D Objects	📱 u-7526m_13.0.0.0_app.zip	2025/2/19 下午 06:09	Compressed (zipp 18,40

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

👫 EZ-UAQ Utility							– 🗆 X	
Hanguage								
Basic	Advanced Uploa	d Download C	Certificate					
$_{\Gamma}$ File path —		Update ———						
C:\Users\RI	C:\Users\RD6-Sandy\Deskto 📻 Firmware Roject Modbus							
Double click	on Module Name or IP	Address to open the we	eb interface of Modu	le.				
Select All	Module Name	Host Name	IP Address	MAC Address	Version	Response Time	Notes	
	UA-5231(M)	UA-Series-f4e11e954e4c	192.168.85.216:80	f4:e1:1e:95:4e:4c	1.5.0.0/ 8.8.0/1.1.85	16ms		
	UA-5231	UA-Series-1442fca93039	192.168.101.2:80	14:42:fc:a9:30:39	1.4.6.32/ 8.5.0/1.1.85	94ms		
	UA-5231(M)	UA-Series-f4e11e955a85	192.168.255.102:80	f4:e1:1e:95:5a:85	1.5.0.0/ 8.8.0/1.1.85	109ms		
	UA-5231M	UA-Series-68c90be4d6cc	192.168.82.201:80	68:c9:0b:e4:d6:cc	1.5.0.2/ 8.8.0/1.1.85	109ms		
	BRK-2841M	ICPDAS-BRK-2841M	192.168.255.60:80	00:0d:e0:18:2b:03	1.1.0.0	188ms		
	BRK-2841M	ICPDAS-BRK-2841M-84	192.168.84.81:80	00:0d:e0:18:2b:11	1.1.0.0	188ms		
	BRK-2841M	BRK-2841M-8461	192.168.84.61:80	00:0d:e0:18:2b:01	1.1.0.0	188ms		
	BRK-2841M	ICPDAS-BRK-2841M-84	192.168.84.80:80	00:0d:e0:18:2b:13	1.1.0.0	203ms		
	U-7526M	000de01820827000	192.168.82.202:80	00:0d:e0:b0:f0:00	13.3.0.0 / 16.10	203ms		

Figure 5-49 Update Firmware (2)

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Step3: Click the [Update Firmware] button, and two prompt boxes will pop-up, as shown in Figure 5-51 and Figure 5-52 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, The table below explains the operational differences across various firmware versions of UA I/O:

UA I/O firmware before V13.8	UA I/O firmware after V13.8 (inclusive)
Deleting the default password will activate the	A window will pop up for the user to enter
old firmware update method. After the module	the password set by the module, as
is updated, the new version of the module	shown in Figure 5-54.
cannot be used, as shown in Figure 5-53.	

Table 5-3 Operational Differences Across Various Firmware Versions of UA I/O

🥰 EZ-UAQ Utility								
Language: English • Q Module Select Module •								
Basic Advanced Upload Download Certificate								
File path Update								
C:\Users\RD6-Sandy\Deskto 📻 Firmware Roject Modbus								
Double click on Module Name or IP Address to optin the web interface of Module.								
Select All	Module Name	Host Name	IP Address	MAC Address	Version	Response Time		
	UA-5231(M)	UA-Series-f4e11e954e4c	192.168.85.216:80	f4:e1:1e:95:4e:4c	1.5.0.0/ 8.8.0/1.1.85	16ms		
	UA-5231	UA-Series-1442fca93039	192.168.101.2:80	14:42:fc:a9:30:39	1.4.6.32/ 8.5.0/1.1.85	94ms		
	UA-5231(M)	UA-Series-f4e11e955a85	192.168.255.102:80	f4:e1:1e:95:5a:85	1.5.0.0/ 8.8.0/1.1.85	109ms		
	UA-5231M	UA-Series-68c90be4decc	192.168.82.201:80	68:c9:0b:e4:d6:cc	1.5.0.2/ 8.8.0/1.1.85	109ms		
	BRK-2841M	ICPDAS-BRK-2841M	192.168.255.60:80	00:0d:e0:18:2b:03	1.1.0.0	188ms		
	BRK-2841M	ICPDAS-BRK-2841M-84.	192.168.84.81:80	00:0d:e0:18:2b:11	1.1.0.0	188ms		
	BRK-2841M	BRK-2841M-8461	192.168.84.61:80	00:0d:e0:18:2b:01	1.1.0.0	188ms		
	BRK-2841M	ICPDAS-BRK-2841M-84	192.168.84.80:80	00:0d:e0:18:2b:13	1.1.0.0	203ms		
	U-7526M	000de01820827000	172.168.82.202:80	00:0d:e0:b0:f0:00	13.3.0.0 / 16.10	203ms		

Figure 5-50 Update Firmware (3)


About password settings, please refer to <u>Appendix B</u>: 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 recommand 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.

🙀 EZ-UAQ Ut	ility						- 🗆 X		
🕀 Langua	Language: English • Q Module Select Module •								
Basic	Advanced Up	pload Download C	Certificate						
- File path	File path Update								
C:\Users\	C:\Users\RD6-Sandy\Deskto								
Double clic	ck on Module Name (or IP Address to open the we	eb interface of Mod	ule.					
Select Al	II Module Name	Host Name	IP Address	MAC Address	Version	Response Time	Notes		
	UA-5231(M)	UA-Series-f4e11e954e4c	192.168.85.216:80	f4:e1:1e:95:4e:4c	1.5.0.0/ 8.8.0/1.1.85	16ms			
	UA-5231	UA-Series-1442fca93039	192.168.101.2:80	14:42:fc:a9:30:39	1.4.6.32/ 8.5.0/1.1.85	94ms			
	UA-5231(M)	UA-Series-f4e11e955a85	192.168.255.102:80	f4:e1:1e:95:5a:85	1.5.0.0/ 8.8.0/1.1.85	109ms			
	UA-5231M	UA-Series-68c90be4d6cc	192.168.82.201:80	68:c9:0b:e4:d6:cc	1.5.0.2/ 8.8.0/1.1.85	109ms			
	BRK-2841M	ICPDAS-BRK-2841M	192.168.255.60:80	00:0d:e0:18:2b:03	1.1.0.0	188ms			
	BRK-2841M	ICPDAS-BRK-2841M-84	192.168.84.81:80	00:0d:e0:18:2b:11	1.1.0.0	188ms			
🔅 Upd	lating the mod	dule(s) firmware, pl	ease wait	00:0d:e0:18:2b:01	1.1.0.0	188ms			
	BRK-2841M	ICPDAS-BRK-2841M-84	192.168.84.80:80	00:0d:e0:18:2b:13	1.1.0.0	203ms			
	U-7526M	000de01820827000	192.168.82.202:80	00:0d:e0:b0:f0:00	13.3.0.0 / 16.10	203ms			

Figure 5-55 Update Firmware (8)

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

🥵 EZ-UAQ Utility							– 🗆 X	
🕀 Language	Denguage: English • Q Module Select Module • Abo							
Basic	Advanced Uploa	d Download (Certificate					
$_{\Gamma}$ File path —		Update ———						
C:\Users\RD	C:\Users\RD6-Sandy\Deskto 📻 Firmware 🖡 Project Modbus							
Double click o	on Module Name or IP	Address to open the we	eb interface of Modu	le.				
Select All	Module Name	Host Name	IP Address	MAC Address	Version	Response Time	Notes	
	UA-5231(M)	UA-Series-f4e11e954e4c	192.168.85.216:80	f4:e1:1e:95:4e:4c	1.5.0.0/ 8.8.0/1.1.85	16ms		
	UA-5231	UA-Series-1442fca93039	192.168.101.2:80	14:42:fc:a9:30:39	1.4.6.32/ 8.5.0/1.1.85	94ms		
	UA-5231(M)	UA-Series-f4e11e955a85	192.168.255.102:80	f4:e1:1e:95:5a:85	1.5.0.0/ 8.8.0/1.1.85	109ms		
	UA-5231M	UA-Series-68c90be4d6cc	192.168.82.201:80	68:c9:0b:e4:d6:cc	1.5.0.2/ 8.8.0/1.1.85	109ms		
	BRK-2841M	ICPDAS-BRK-2841M	192.168.255.60:80	00:0d:e0:18:2b:03	1.1.0.0	188ms		
	BRK-2841M	ICPDAS-BRK-2841M-84	192.168.84.81:80	00:0d:e0:18:2b:11	1.1.0.0	188ms		
	BRK-2841M	BRK-2841M-8461	192.168.84.61:80	00:0d:e0:18:2b:01	1.1.0.0	188ms		
	BRK-2841M	ICPDAS-BRK-2841M-84	192.168.84.80:80	00:0d:e0:18:2b:13	1.1.0.0	203ms		
	U-7526M	000de01820827000	192.168.82.202:80	00:0d:e0:b0:f0:00	13.3.0.0 / 16.10	203ms	Update successful	

Figure 5-56 Update Firmware (9)

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

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 operation interface illustrates the update process for a single U-7526M module:

🥵 EZ-UAQ Utility							
Language:	English - Q	Module Select Module	e	-			
Basic A	dvanced Upload	d Download C	Certificate				
$_{\Gamma}$ File path ——		Update ———					
C:\Users\RD6-Sandy\Deskto							
Double click of	n Module Name or IP	Acdress to open the we	eb interface of Modul	le.			
Select All	Module Name	Hos Name	IP Address	MAC Address	Version	Response Time	
	UA-5231	UA-Series-1442fca93039	192.168.101.2:80	14:42:fc:a9:30:39	1.4.6.32/ 8.5.0/1.1.85	31ms	
	UA-5231M	UA-Series-68c90be4d6cc	192.168.82.201:80	68:c9:0b:e4:d6:cc	1.5.0.2/ 8.8.0/1.1.85	78ms	
	UA-5231(M)	UA-Series f4e11e954e4c	192.168.85.216:80	f4:e1:1e:95:4e:4c	1.5.0.0/ 8.8.0/1.1.85	94ms	
	UA-5231(M)	UA-Series-f-e11e955a85	192.168.255.102:80	f4:e1:1e:95:5a:85	1.5.0.0/ 8.8.0/1.1.85	156ms	
	BRK-2841M	ICPDAS-BRK-1841M-84	192.168.84.80:80	00:0d:e0:18:2b:13	1.1.0.0	172ms	
	BRK-2841M	BRK-2841M-8461	192.168.84.61:80	00:0d:e0:18:2b:01	1.1.0.0	172ms	
	BRK-2841M	ICPDAS-BRK-2841M	192.168.255.60:80	00:0d:e0:18:2b:03	1.1.0.0	172ms	
	BRK-2841M	ICPDAS-BRK-2841M-84	192.168.84.81:80	00:0d:e0:18:2b:11	1.1.0.0	172ms	
	U-7526M	000de01820827000	192.168.82.202:80	00:0d:e0:b0:f0:00	13.0.0.0 / 16.10	188ms	

Step1: Click 🔲 to select the Project file you want to update.

Figure 5-57 Update Project (1)

🙀 Open					×
← → * ↑	\rightarrow \checkmark \uparrow \Box \rightarrow This PC \rightarrow Desktop \rightarrow Project \checkmark \eth				
Organize 👻 New fo	older			== -	
💻 This PC	^	Name	Date modified	Туре	Size
🗊 3D Objects		U-7526M_192.168.82.202_Project	2025/2/20 下午 02:29	File folder	
📃 Desktop					
🖆 Documents					
👆 Downloads	~	<			>
File	e name:		~ (*.2	tip)	\sim
	_			Open	Cancel

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

👯 EZ-UAQ Utility	🙀 EZ-UAQ Utility							
Hanguage:	Hanguage: English · Q Module Select Module ·							
Basic A	dvanced Upload	d Download (Certificate					
┌ File path ——		Update ———						
C:\Users\RD6	C:\Users\RD6-Sandy\Deskto							
Double click or	n Module Name or IP	Address to open the we	eb interface of Modul	e.				
Select All	Module Name	Host Name	IP Address	MAC Address	Version	Response Time		
	UA-5231	UA-Series-1442fca93039	192.168.101.2:80	14:42:fc:a9:30:39	1.4.6.32/ 8.5.0/1.1.85	31ms		
	UA-5231M	UA-Series-68c90be4d6cc	192.168.82.201:80	68:c9:0b:e4:d6:cc	1.5.0.2/ 8.8.0/1.1.85	78ms		
	UA-5231(M)	UA-Series-f4e11e954e4c	192.168.85.216:80	f4:e1:1e:95:4e:4c	1.5.0.0/ 8.8.0/1.1.85	94ms		
	UA-5231(M)	UA-Series-f4e11e955a85	192.168.255.102:80	f4:e1:1e:95:5a:85	1.5.0.0/ 8.8.0/1.1.85	156ms		
	BRK-2841M	ICPDAS-BRK-2841M-84	192.168.84.80:80	00:0d:e0:18:2b:13	1.1.0.0	172ms		
	BRK-2841M	BRK-2841M-8461	192.168.84.61:80	00:0d:e0:18:2b:01	1.1.0.0	172ms		
	BRK-2841M	ICPDAS-BRK-2841M	192.168.255.60:80	00:0d:e0:18:2b:03	1.1.0.0	172ms		
	BRK-2841M	ICPDAS-BRK-2841M-84	192.168.84.81:80	00:0d:e0:18:2b:11	1.1.0.0	172ms		
	U-7526M	000de01820827000	192.168.82.202:80	00:0d:e0:b0:f0:00	13.0.0.0 / 16.10	188ms		

Figure 5-58 Update Project (2)

Step3: Click the [Project] button, two prompt boxes will pop up asking, as shown in Figure 5-60 and Figure 5-61 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.

🙀 EZ-UAQ Utility	🗱 EZ-UAQ Utility								
🕀 Language:	Language: English - Q Module Select Module -								
Basic A	Basic Advanced Upload Download Certificate								
┌ File path ——	File path Update								
C:\Users\RD6-Sandy\Deskto									
Double click o	n Module Name or IP	Address to open the we	eb interface of M	lodule.					
Select All	Module Name	Host Name	IP Address	MAC Address	Version	Response Time			
	UA-5231	UA-Series-1442fca93039	192.168.101.2:80	14:42:fc:a9:30:39	1.4.6.32/ 8.5.0/1.1.85	31ms			
	UA-5231M	UA-Series-68c90be4d6cc	192.168.82.201:80	68:c9:0b:e4:d6:cc	1.5.0.2/ 8.8.0/1.1.85	78ms			
	UA-5231(M)	UA-Series-f4e11e954e4c	192.168.85.216:80	f4:e1:1e:95:4e:4c	1.5.0.0/ 8.8.0/1.1.85	94ms			
	UA-5231(M)	UA-Series-f4e11e955a85	192.168.255.102:	0 f4:e1:1e:95:5a:85	1.5.0.0/ 8.8.0/1.1.85	156ms			
	BRK-2841M	ICPDAS-BRK-2841M-84	192.168.84.80:80	00:0d:e0:18:2b:13	1.1.0.0	172ms			
	BRK-2841M	BRK-2841M-8461	192.168.84.61:80	00:0d:e0:18:2b:01	1.1.0.0	172ms			
	BRK-2841M	ICPDAS-BRK-2841M	192.168.255.60:80	00:0d:e0:18:2b:03	1.1.0.0	172ms			
	BRK-2841M	ICPDAS-BRK-2841M-84	192.168.84.81:80	00:0d:e0:18:2b:11	1.1.0.0	172ms			
	U-7526M	000de01820827000	192.168.82.202:80	00:0d:e0:b0:f0:00	13.0.0.0 / 16.10	188ms			

Figure 5-59 Update Project (3)



Figure 5-61 Update Project (5)

About password settings, please refer to <u>Appendix B</u>: 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 recommand 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.

👫 Password	_	×
Password		
OK		

Figure 5-62 Update Project (6)

🥵 EZ-UAQ Utility							– 🗆 X	
🕀 Language	English - Q	Module Select Module	e	•			About	
Basic /	Advanced Upload	d Download C	Certificate					
File path —		Update						
C:\Users\RD	C:\Users\RD6-Sandy\Deskto							
Double click o	n Module Name or IP	Address to open the we	eb interface of Modu	le.				
Select All	Module Name	Host Name	IP Address	MAC Address	Version	Response Time	Notes	
	UA-5231	UA-Series-1442fca93039	192.168.101.2:80	14:42:fc:a9:30:39	1.4.6.32/ 8.5.0/1.1.85	31ms		
	UA-5231M	UA-Series-68c90be4d6cc	192.168.82.201:80	68:c9:0b:e4:d6:cc	1.5.0.2/ 8.8.0/1.1.85	78ms		
	UA-5231(M)	UA-Series-f4e11e954e4c	192.168.85.216:80	f4:e1:1e:95:4e:4c	1.5.0.0/ 8.8.0/1.1.85	94ms		
	UA-5231(M)	UA-Series-f4e11e955a85	192.168.255.102:80	f4:e1:1e:95:5a:85	1.5.0.0/ 8.8.0/1.1.85	156ms		
	BRK-2841M	ICPDAS-BRK-2841M-84	192.168.84.80:80	00:0d:e0:18:2b:13	1.1.0.0	172ms		
	BRK-2841M	BRK-2841M-8461	192.168.84.61:80	00:0d:e0:18:2b:01	1.1.0.0	172ms		
😳 Updat	ing the modul	e(s) project, plea	ase wait 0:80	00:0d:e0:18:2b:03	1.1.0.0	172ms		
	BRK-2841M	ICPDAS-BRK-2841M-84	192.168.84.81:80	00:0d:e0:18:2b:11	1.1.0.0	172ms		
	U-7526M	000de01820827000	192.168.82.202:80	00:0d:e0:b0:f0:00	13.0.0.0 / 16.10	188ms		

Figure 5-63 Update Project (7)

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

🥵 EZ-UAQ Utility							- 🗆 ×
🕀 Language	English - Q	Module Select Modul	e	•			About
Basic /	Advanced Uploa	d Download C	Certificate				
File path —		Update					
C:\Users\RD	C:\Users\RD6-Sandy\Deskto 📻 Firmware Roject Modbus						
Double click o	on Module Name or IP	Address to open the we	eb interface of Modu	le.			
Select All	Module Name	Host Name	IP Address	MAC Address	Version	Response Time	Notes
	UA-5231	UA-Series-1442fca93039	192.168.101.2:80	14:42:fc:a9:30:39	1.4.6.32/ 8.5.0/1.1.85	31ms	
	UA-5231M	UA-Series-68c90be4d6cc	192.168.82.201:80	68:c9:0b:e4:d6:cc	1.5.0.2/ 8.8.0/1.1.85	78ms	
	UA-5231(M)	UA-Series-f4e11e954e4c	192.168.85.216:80	f4:e1:1e:95:4e:4c	1.5.0.0/ 8.8.0/1.1.85	94ms	
	UA-5231(M)	UA-Series-f4e11e955a85	192.168.255.102:80	f4:e1:1e:95:5a:85	1.5.0.0/ 8.8.0/1.1.85	156ms	
	BRK-2841M	ICPDAS-BRK-2841M-84	192.168.84.80:80	00:0d:e0:18:2b:13	1.1.0.0	172ms	
	BRK-2841M	BRK-2841M-8461	192.168.84.61:80	00:0d:e0:18:2b:01	1.1.0.0	172ms	
	BRK-2841M	ICPDAS-BRK-2841M	192.168.255.60:80	00:0d:e0:18:2b:03	1.1.0.0	172ms	
	BRK-2841M	ICPDAS-BRK-2841M-84	192.168.84.81:80	00:0d:e0:18:2b:11	1.1.0.0	172ms	
	U-7526M	000de01820827000	192.168.82.202:80	00:0d:e0:b0:f0:00	13.0.0.0 / 16.10	188ms	Update successful

Figure 5-64 Update Project (8)

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

> Update Modbus Configurations

*Note: This feature is only available for UA communication servers.

Using the **[Update Modbus Configuration]** feature, users can quickly create a large number of Modbus points and convert them to OPC UA or MQTT protocols. Modules with configured Modbus points can download the configuration using the [Download Modbus Configuration] option, edit it, and then upload it again. For newly purchased or unconfigured modules, users can download a template file from the EZ-UAQ Utility webpage for editing.

The template file link from the download center on the EZ-UAQ Utility webpage is as follows: <u>https://www.icpdas.com/en/download/show.php?num=8560&nation=TW&kind1=&model=&kw=EZ-UAQ</u>

FII F NAME	VERSION	FILE DATE	SIZE	NOTE	
<< Software >>					
EZ-UAQ Utility V3.0.10.zip	V3.0.10(Beta)	2025-04-01	10.7MB		
EZ-UAQ Utility V2.4.40.zip	V.2.4.40 (Beta)	2025-01-06	11.3 MB		
EZ-UAQ Utility V2.3.1.zip	V2.3.1	2023-09-13	2.23 MB		8
<< Template file>>					
Modbus To OPCUA.zip		2025-03-06	104 KB		
Modbus To MQTT.zip		2025-03-06	148 KB		8

EZ-UAQ Utility

Download the file and extract it. Inside, you'll find the module's Excel template file. If the module uses an XVboard, make sure to use the _XVboard template file for editing. Below is an illustration of the Modbus To OPC UA and Modbus To MQTT template files.

🖌 🚽		Extract	Modbus To OPCU	JA —	
File Home	Share View	Compressed Folder Tool	s		~ 🕐
$\leftarrow \rightarrow ~ \star ~ \uparrow$	- « Modbus To OPC	CUA.zip > Modbus To OP	CUA ∨ Č	Search Modbus To OPCU	م Al
A Quick	Name	^	Date modified	Туре	Size
	(ModbusToOPCU	A)UA-2241M.xlsx	2024/10/16 上午 10:27	Microsoft Excel <u>⊤</u>	26 KB
U yr	(ModbusToOPCU	A)UA-2241M_XVboard	2024/10/16 上午 10:27	Microsoft Excel ⊥	27 KB
🕂 D 🖈	ModbusToOPCU	A)UA-2841M.xlsx	2024/10/16 上午 10:28	Microsoft Excel <u> </u>	26 KB
🛗 D 🖈	ModbusToOPCU	A)UA-2841M_XVboard	2024/10/16 上午 10:28	Microsoft Excel <u> </u>	27 KB
📰 Pi 🖈	(ModbusToOPCU	A)UA-5231(M).xlsx	2024/10/22 下午 04:51	Microsoft Excel ⊥	26 KB
C 🖈	(ModbusToOPCU	A)UA-7231M.xlsx	2025/2/26 上午 10:24	Microsoft Excel ⊥	26 KB

📕 🛃 📘 🚽	Modbus To MQTT	Extract		_		\times
File Home	Share View	Compressed Folder Tools				~ ?
$\leftarrow \ \rightarrow \ \star \ \wedge$	📙 « Modbus To >	Modbus To MQTT 🛛 🗸	Ō	Search Modbus To MQTT		Q
A Quick	Name	^	ђ	/pe	Size	
	(ModbusToMQTT)	UA-2241M.xlsx	Ν	licrosoft Excel 工作表		37 KB
	(ModbusToMQTT)	UA-2241M_XVboard.xlsx	N	licrosoft Excel 工作表		37 KB
🕂 D 🖈	(ModbusToMQTT)	UA-2841M.xlsx	N	licrosoft Excel 工作表		36 KB
🖆 D 🖈	(ModbusToMQTT)	UA-2841M_XVboard.xlsx	N	licrosoft Excel 工作表		43 KB
📰 Pi 🖈	(ModbusToMQTT)	UA-5231(M).xlsx	Ν	licrosoft Excel 工作表		37 KB
📙 C 🖈 🗸	(ModbusToMQTT)	UA-7231M.xlsx	N	licrosoft Excel 工作表		37 KB

Using "Modbus To OPC UA" as an example, set the communication mode to Modbus TCP. First, edit the template Excel file, and once completed, upload it to the module via the EZ-UAQ Utility.

When Editing Excel content, Please use numbers and text, Do not using formulas, as they may display incorrectly or cause errors.

l	ਜ਼ ਙਾ ੇਾ 🕼				CUA)UA-5							
F	ile Home	Insert Page Layout	Formulas	Data	Review	View	Help	Q Tell me	e what you wa	ant to do		\Box
1 助		● v 11 v = U v A A A = 字型 rs	= ■ ■ = = □ ■ </td <td>▼ 通用格: \$ ▼ \$ ■</td> <td>tt → % * ting</td> <td>■ 設定格式化 格式化為表 儲存格様式 様式</td> <td>的條件 ▼ 格 ▼ ▼</td> <td>翻插入 ▼ 副除 ▼ 間格式▼ 儲存格</td> <td>∑ • 2* • ↓ • ♪ • そ • 編輯</td> <td>建: PE Adobe</td> <td>ÌŽ IF Acrobat</td> <td>~</td>	▼ 通用格: \$ ▼ \$ ■	tt → % * ting	■ 設定格式化 格式化為表 儲存格様式 様式	的條件 ▼ 格 ▼ ▼	翻插入 ▼ 副除 ▼ 間格式▼ 儲存格	∑ • 2* • ↓ • ♪ • そ • 編輯	建: PE Adobe	ÌŽ IF Acrobat	~
H.	H24 \checkmark : $\times \checkmark f_{\rm x}$											
	A	В	С	D	Е	F	G	Н	I	J	K	
1	ModuleName	IP	Port	SlaveID	Timeou	it PollingRa	ate					
2	Test10PCUATCP	192.168.82.92	502	1	500	0 500						
3	Test2OPCUATCP	192.168.82.90	502	2	500	500						
4												
5												
б	ModuleName	VariableName	DataTyp	Functior	Functio	r Address	Swap	Descript	OpcuaEr S	ScalingE	Scaling	RSc
7	Test10PCUATCP	Test10PCUATCPD00	Bool	0x		1 0	TRUE		TRUE			
8	Test10PCUATCP	Test10PCUATCPAI0	Short	3x		1 1	TRUE	AI	TRUE			
9	Test20PCUATCP	Test20PCUATCPD01	Bool	0x		1 0	TRUE		TRUE			
10	Test20PCUATCP	Test20PCUATCPAI1	Short	3x		1 1	TRUE	AI	TRUE			
11												
12												
13												-
	< → TCP	RTU ASCII	+				4					Þ
Rea	dy 🕀 Accessibility	r: Good to go							巴	- 1	+ 1	00%

Step 1: Please click **(IDE)** to select the edited Excel file that needs to be updated. The image below shows the file extension for selecting the version package.

🙀 EZ-UAQ Utility	縣 EZ-UAQ Utility									
Hanguage:	English - Q	Module		•						
Basic A	Advanced Uploa	d Download (Certificate							
_┌ File path —		Update ———								
C:\Users\RD	C:\Users\RD6-Sandy\Deskto									
Double click o	n Module Name or IP	Address to open the we	eb interface of Modu	le.						
Select All	Module Name	Nost Name	IP Address	MAC Address	Version	Response Time				
	UA-5231	UA-Series-1442fca93039	192.168.101.2:80	14:42:fc:a9:30:39	1.4.6.32/ 8.5.0/1.1.85	32ms				
	UA-5231(M)	UA-Series-f4e11e954e4c	192.168.85.216:80	f4:e1:1e:95:4e:4c	1.5.0.0/ 8.8.0/1.1.85	141ms				
	UA-5231M	UA-series-68c90be4d6cc	192.168.82.201:80	68:c9:0b:e4:d6:cc	1.5.0.2/ 8.8.0/1.1.85	141ms				
	UA-5231(M)	UA-Series-f4e11e955a85	192.168.255.102:80	f4:e1:1e:95:5a:85	1.5.0.0/ 8.8.0/1.1.85	157ms				
	BRK-2841M	BRK-2841M-8461	192.168.84.61:80	00:0d:e0:18:2b:01	1.1.0.0	157ms				
	BRK-2841M	ICPDAS-BRK-2841M	192.168.255.60:80	00:0d:e0:18:2b:03	1.1.0.0	250ms				
	BRK-2841M	ICPDAS-BRK-2841M-84	192.168.84.81:80	00:0d:e0:18:2b:11	1.1.0.0	250ms				

Figure 5-65 Update Modbus Configuration (1)

🙀 Open	¥			×
\leftrightarrow \rightarrow \checkmark \uparrow \square \rightarrow This P	C > Desktop > Modbus Test > OPCU	A > 20240919 ∨ Ö	Search 20240919	م,
Organize 🔻 New folder			8== ▼ [
💻 This PC	Name	Date modified	Туре	Size
3D Objects				
E Desktop				
🖶 Downloads 🔹 🤊	/ <			>
File name	e:	~	(*.zip)	\sim
			(*.zip) (*.tar)	
			*.xlsx)	ii.
🚜 Open				×
\leftarrow \rightarrow \checkmark \uparrow \square \rightarrow This Pe	C > Desktop > Modbus Test > OPCU	A > 20240919 ∨ Č	Search 20240919	<i>م</i>
Organize 🔻 New folder				. ?
🧊 3D Objects 🛛 🖌	Name	Date modified	Туре	Size
📃 Desktop	(ModbusToOPCUA)UA-5231(M)	.xlsx 2025/2/20下午 04:09	Microsoft Excel <u>T</u>	26

Step 2: After selecting the file, please check the modules that need to be updated.

🙀 EZ-UAQ Utility	K EZ-UAQ Utility									
🕀 Language:	Language: English - Q Module Select Module -									
Basic A	dvanced Uploa	d Download C	Certificate							
┌ File path ——	File pathUpdate									
C:\Users\RD	C:\Users\RD6-Sandy\Deskto 📻 Firmware Roject Modbus									
Double click o	n Module Name or IP	Address to open the we	eb interface of Modu	le.						
Select All	Module Name	Host Name	IP Address	MAC Address	Version	Response Time				
	UA-5231	UA-Series-1442fca93039	192.168.101.2:80	14:42:fc:a9:30:39	1.4.6.32/ 8.5.0/1.1.85	32ms				
	UA-5231(M)	UA-Series-f4e11e954e4c	192.168.85.216:80	f4:e1:1e:95:4e:4c	1.5.0.0/ 8.8.0/1.1.85	141ms				
	UA-5231M	UA-Series-68c90be4d6cc	192.168.82.201:80	68:c9:0b:e4:d6:cc	1.5.0.2/ 8.8.0/1.1.85	141ms				
	UA-5231(M)	UA-Series-f4e11e955a85	192.168.255.102:80	f4:e1:1e:95:5a:85	1.5.0.0/ 8.8.0/1.1.85	157ms				
	BRK-2841M	BRK-2841M-8461	192.168.84.61:80	00:0d:e0:18:2b:01	1.1.0.0	157ms				
	BRK-2841M	ICPDAS-BRK-2841M	192.168.255.60:80	00:0d:e0:18:2b:03	1.1.0.0	250ms				
	BRK-2841M	ICPDAS-BRK-2841M-84	192.168.84.81:80	00:0d:e0:18:2b:11	1.1.0.0	250ms				

Figure 5-66 Update Modbus Configuration (2)

Step 3: Click the **[Modbus Configuration]** button, and two confirmation prompts will appear, as shown in Figures 5-68 and 5-69. This is to ensure no accidental operation. Then, click YES, and a password window will pop up. Enter the EZ-UAQ Utility password set in the module configuration and press OK. The interface will display **"Updating Modbus Configuration File, Please Wait,"** indicating that the update process has begun.

EZ-UAQ Utili	ty					
tangua	ge: English -	- Q Module Select Module	e	-		
Basic	Advanced Up	pload Download C	Certificate			
– File path –		Update				
C:\Users\F	RD6-Sandy\Deskto	🦲 📙 Firmware	Project	Configur	us	
Double click	c on Module Name o	or IP Address to open the we	eb interface of Modu	ıle.		
Select All	Module Name	Host Name	IP Address	MAC Address	Version	Response Time
<u>_</u>	UA-5231	UA-Series-1442tca93039	192.168.101.2:80	14:42:fc:a0:30:39	1.4.6.32/ 8.5.0/1.1.85	32ms
	UA-5231(M)	UA-Series-f4e11e954e4c	192.168.85.216:80	f4:e1:1e.95:4e:4c	1.5.0.0/ 8.8.0/1.1.85	141ms
	UA-5231M	UA-Series-68c90be4d6cc	192.168.82.201:80	68:c90b:e4:d6:cc	1.5.0.2/ 8.8.0/1.1.85	141ms
	UA-5231(IVI)	DRK 294114 9461	192.168.255.102:80	14:01:10:95:58:85	1.5.0.0/ 8.8.0/1.1.85	15/ms
	DRK-2041IVI	ICDDAS DDK 2041M	192.108.84.01.80	00:00:00:18:20:01	1.1.0.0	157ms
	DRK-2041IVI		192.100.255.00.00	00.00.00.16.20.05	1.1.0.0	250ms
		🥵 EZ-UAQ Utility	-	- 0	×	
		Are you sure	you want to upd configuration?	ate the Modbus		
		NO		YES		
		Figure 5-68 Upd	late Modbus	Configuration	(4)	
		🥵 EZ-UAQ Utility		- D >	<	
		▲ This action	n is irreversible	. Are you sure?		
		NO		YES		

Figure 5-69 Update Modbus Configuration (5)

The Password can be referenced(Reference in <u>Appendix B</u>: Password Settings), which outlines how to set the EZ-UAQ Utility password for the module. If no password has been set, the default password will be displayed during the update process, allowing users to proceed quickly, as both the software and modules come with default passwords. However, it is highly recommended to change the default password to enhance security. For easier management, it is also advisable to use the same password for modules within the same series, enabling seamless multi-module operations.

🙀 Password	_	×
Password		
aleanalean an a		
OK		

Figure 5-70 Update Modbus Configuration (6)

👫 EZ-UAQ UI	tility						– 🗆 X				
🕀 Langu	Language: English Q Module Select Module Abr										
Basic	Advanced Uploa	ad Download (Certificate								
File path		-Update									
C:\Users'	C:\Users\RD6-Sandy\Deskto										
Double cli	ick on Module Name or II	P Address to open the w	eb interface of Modu	ıle.							
🔲 Select A	II Module Name	Host Name	IP Address	MAC Address	Version	Response Time	Notes				
	UA-5231	UA-Series-1442fca93039	192.168.101.2:80	14:42:fc:a9:30:39	1.4.6.32/ 8.5.0/1.1.85	32ms					
	UA-5231(M)	UA-Series-f4e11e954e4c	192.168.85.216:80	f4:e1:1e:95:4e:4c	1.5.0.0/ 8.8.0/1.1.85	141ms					
	UA-5231M	UA-Series-68c90be4d6cc	192.168.82.201:80	68:c9:0b:e4:d6:cc	1.5.0.2/ 8.8.0/1.1.85	141ms					
	UA-5231(M)	UA-Series-f4e11e955a85	192.168.255.102:80	f4:e1:1e:95:5a:85	1.5.0.0/ 8.8.0/1.1.85	157ms					
	BRK-2841M	BRK-2841M-8461	192.168.84.61:80	00:0d:e0:18:2b:01	1.1.0.0	157ms					
	BRK-2841M	ICPDAS-BRK-2841M	192.168.255.60:80	00:0d:e0:18:2b:03	1.1.0.0	250ms					
🙄 Upd	lating modbus c	onfiguration file	, please wait	00:0d:e0:18:2b:11	1.1.0.0	250ms					

Figure 5-71 Update Modbus Configuration (7)

Step 4: When the update is successful, the selected module's [Notes] section will display the text "Update Successful."

👯 EZ-UAQ Utility							– 🗆 ×			
Language: English - Q Module Select Module -										
Basic A	Advanced Uploa	d Download (Certificate							
┌ File path —		Update ———								
C:\Users\RD	C:\Users\RD6-Sandy\Deskto									
Double click o	n Module Name or IP	Address to open the we	eb interface of Modu	le.						
Select All	Module Name	Host Name	IP Address	MAC Address	Version	Response Time	Notes			
	UA-5231	UA-Series-1442fca93039	192.168.101.2:80	14:42:fc:a9:30:39	1.4.6.32/ 8.5.0/1.1.85	32ms				
	UA-5231(M)	UA-Series-f4e11e954e4c	192.168.85.216:80	f4:e1:1e:95:4e:4c	1.5.0.0/ 8.8.0/1.1.85	141ms				
	UA-5231M	UA-Series-68c90be4d6cc	192.168.82.201:80	68:c9:0b:e4:d6:cc	1.5.0.2/ 8.8.0/1.1.85	141ms	Update successful			
	UA-5231(M)	UA-Series-f4e11e955a85	192.168.255.102:80	f4:e1:1e:95:5a:85	1.5.0.0/ 8.8.0/1.1.85	157ms				
	BRK-2841M	BRK-2841M-8461	192.168.84.61:80	00:0d:e0:18:2b:01	1.1.0.0	157ms				
	BRK-2841M	ICPDAS-BRK-2841M	192.168.255.60:80	00:0d:e0:18:2b:03	1.1.0.0	250ms				
	BRK-2841M	ICPDAS-BRK-2841M-84	192.168.84.81:80	00:0d:e0:18:2b:11	1.1.0.0	250ms				

Figure 5-72 Update Modbus Configuration (8)

5.2.4 Download

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

🙀 EZ-UAQ Utility	K EZ-UAQ Utility									
🕀 Language:										
Basic A	dvanced Upload	d Download (Certificate							
_ Storage path	- Storage path Download									
C:\Users\RD6	C:\Users\RD6-Sandy\Deskto 📻 Log Roject Modbus									
Double click or	n Module Name or IP	Address to open the we	eb interface of Modul	e.						
Select All	Module Name	Host Name	IP Address	MAC Address	Version	Response Time				
	UA-5231(M)	UA-Series-f4e11e955a85	192.168.255.102:80	f4:e1:1e:95:5a:85	1.5.0.0/ 8.8.0/1.1.85	109ms				
	UA-5231M	UA-Series-68c90be4d6cc	192.168.82.201:80	68:c9:0b:e4:d6:cc	1.5.0.2/ 8.8.0/1.1.85	109ms				
	BRK-2841M	BRK-2841M-8461	192.168.84.61:80	00:0d:e0:18:2b:01	1.1.0.0	125ms				
	U-7526M	000de01820827000	192.168.82.202:80	00:0d:e0:b0:f0:00	13.3.0.0 / 16.10	203ms				

Figure 5-73 Download Function Page

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 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-7526M module:

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

👫 EZ-UAQ Utility	EZ-UAQ Utility									
) Language:	Language: English • Q Module Select Module •									
Basic A	dvanced Uploa	d Download (Certificate							
$_{\Gamma}$ Storage path	torage path Download									
C:\Users\RD	C:\Users\RD6-Sandy\Deskto									
Double click o	n Module Name or IP	Address to open the we	eb interface of Modul	e.						
Select All	Module Name	Host Name	IP Address	MAC Address	Version	Response Time				
	UA-5231M	UA Series-68c90be4d6cc	192.168.82.201:80	68:c9:0b:e4:d6:cc	1.5.0.2/ 8.8.0/1.1.85	78ms				
	BRK-2841M	ICPDAS-BRK-2841M	192.168.255.60:80	00:0d:e0:18:2b:03	1.1.0.0	188ms				
	BRK-2841M	BRK-2841M-8461	192.168.84.61:80	00:0d:e0:18:2b:01	1.1.0.0	188ms				
	U-7526M	000de01820827000	192.168.82.202:80	00:0d:e0:b0:f0:00	13.3.0.0 / 16.10	203ms				

Figure 5-74 Download Log (1)

Select Folder			×
\leftarrow \rightarrow \checkmark \uparrow \square \rightarrow This	PC > Desktop > Log	ע פֿ Search	Project $ ho$
Organize 🔻 New folder			::: - ?
114 EZ-UAQ Utility_en	Name No item	Date modified	Type Size
This PC Folder:	v < Log	Select 1	Folder Cancel

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

🙀 EZ-UAQ Utilit	ty								
🕀 Languag	⊕ Language: English • Q Module Select Module •								
Basic	Advanced U	Jpload	Download	Certificate					
_ Storage pa	ith	Do	wnload —						
C:\Users\RD6-Sandy\Deskto 📻 Log Project Modbus Configuration									
Double click	<mark>con Module Name</mark>	or IP Addre	ss to open the v	veb interface	of Module.				
Select All	Module Name	Host N	lame	IP Address	N	IAC Address	Version	Response Time	
	UA-5231M	UA-Ser	ries-68c90be4d6co	c 192.168.82.2	201:80 68	3:c9:0b:e4:d6:cc	1.5.0.2/ 8.8.0/1.1.85	78ms	
	BRK-2841M	ICPDAS	S-BRK-2841M	192.168.255	.60:80 00):0d:e0:18:2b:03	1.1.0.0	188ms	
	BRK-2841M	BRK-28	341M-8461	192.168.84.6	51:80 00):0d:e0:18:2b:01	1.1.0.0	188ms	
	U-7526M	000de0	01820827000	192.168.82.2	002:80 00	0:0d:e0:b0:f0:00	13.3.0.0 / 16.10	203ms	
			Figure	5-75 Do	wnload	Log (2)			
🥵 EZ-UAQ Utility								- 🗆 ×	
🕀 Language:	English - Q	Module	ect Module					About	
Basic A	Advanced Uploa	d Downlo	ad Certificate	e					
- Storage path	I	Download							
					Ma	dhuc			
C:\Users\RD	6-Sandy\Deskto		og 🛛 👘	Project	Confic	uration			
Double click o	n Module Name or IP	Address to op	en the web interfa	ace of Module.					
Select All	Module Name	Host Name	IP Addre	ss N	IAC Address	Version	Response Time	Notes	
	UA-5231M	UA-Series-68c9	0be4d6cc 192.168.8	32.201:80 68	3:c9:0b:e4:d6:cc	1.5.0.2/ 8.8.0/1.1.85	78ms		

Figure 5-76 Download Log (3)

00:0d:e0:18:2b:03

00:0d:e0:18:2b:01

00:0d:e0:b0:f0:00

1.1.0.0

1.1.0.0

13.3.0.0 / 16.10

188ms

188ms

002n

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

192.168.255.60:80

192.168.84.61:80

192.168.82.202:80

BRK-2841M

Download Log file, please wait

~

ICPDAS-BRK-2841M

🙀 EZ-UAQ Utility — 🗆								
🕀 Language:	English - Q	Module		•			About	
Basic A	dvanced Upload	d Download (Certificate					
– Storage path C:\Users\RD6	- Storage path - Download - C:\Users\RD6-Sandy\Deskto - Configuration							
Double click or	n Module Name or IP	Address to open the we	b interface of Modul	e.				
Select All	Module Name	Host Name	IP Address	MAC Address	Version	Response Time	Notes	
	UA-5231M	UA-Series-68c90be4d6cc	192.168.82.201:80	68:c9:0b:e4:d6:cc	1.5.0.2/ 8.8.0/1.1.85	78ms		
	BRK-2841M	ICPDAS-BRK-2841M	192.168.255.60:80	00:0d:e0:18:2b:03	1.1.0.0	188ms		
	BRK-2841M	BRK-2841M-8461	192.168.84.61:80	00:0d:e0:18:2b:01	1.1.0.0	188ms		
	U-7526M	000de01820827000	192.168.82.202:80	00:0d:e0:b0:f0:00	13.3.0.0 / 16.10	203ms	Download successful	

Figure 5-77 Download Log (4)

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".

Log				_		\times
$\leftarrow \rightarrow \checkmark \uparrow$	<mark></mark> → Log	✓ [™] Sea	rch Log			Q
A Ouicka	Name	Date modified	Туре		Size	
De 🖈	U-7526M_192.168.82.202_LOG	2025/2/12 下午 05:10	File folder			

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

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-7526M module:

Step1: Click **(IDE)** to select the Project file you want to download. The image below shows the file extension of the Project file.

👫 EZ-UAQ Utility										
🕀 Language:	Language: English - Q Module Select Module -									
Basic A	dvanced Upload	d Download C	Certificate							
Storage path Download										
C:\Users\RD6-Sandy\Deskto										
Double click or	n Module Name or IP	Address to open the we	eb interface of Modul	e.						
Select All	Module Name	Host Name	IP Address	MAC Address	Version	Response Time				
	UA-5231M	UA-Series-68c90be4d6cc	192.168.82.201:80	68:c9:0b:e4:d6:cc	1.5.0.2/ 8.8.0/1.1.85	109ms				
	BRK-2841M	ICPDAS-BRK-2841M	192.168.255.60:80	00:0d:e0:18:2b:03	1.1.0.0	203ms				
	BRK-2841M	ICPDAS-BRA-2841M-84	192.168.84.81:80	00:0d:e0:18:2b:11	1.1.0.0	203ms				
	BRK-2841M	ICPDAS-BRK-2841M-84	192.168.84.80:80	00:0d:e0:18:2b:13	1.1.0.0	203ms				
	U-7526M	000de01820827.00	192.168.82.202:80	00:0d:e0:b0:f0:00	13.3.0.0 / 16.10	203ms				

Figure 5-78 Download Project (1)



Step2: Please check the module you want to download, and then click the [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.

👯 EZ-UAQ Utility									
🕀 Language:	English - Q	Module Select Module	e	-					
Basic A	Advanced Upload	d Download (Certificate						
_ Storage path	Storage path Download Download								
C:\Users\RD	6-Sandy\Deskto	🛛 🗖 Log	Project	Kodbu Configura	s tion				
Double click o	n Module Name or IP	Address to open the we	eb interface of Modu	e.					
Select All	Module Name	Host Name	IP Address	MAC Address	Version	Response Time			
	UA-5231M	UA-Series-68c90be4d6cc	192.168.82.201:80	68:c9:0b:e4:d6:cc	1.5.0.2/ 8.8.0/1.1.85	109ms			
	BRK-2841M	ICPDAS-BRK-2841M	192.168.255.60:80	00:0d:e0:18:2b:03	1.1.0.0	203ms			
	BRK-2841M	ICPDAS-BRK-2841M-84	192.168.84.81:80	00:0d:e0:18:2b:11	1.1.0.0	203ms			
	BRK-2841M	ICPDAS-BRK-2841M-84	192.168.84.80:80	00:0d:e0:18:2b:13	1.1.0.0	203ms			
	U-7526M	000de01820827000	192.168.82.202:80	00:0d:e0:b0:f0:00	13.3.0.0 / 16.10	203ms			

Figure 5-79 Download Project (2)

🥵 Password	_	×
Password		
OK		

Figure 5-80 Download Project (3)

🥵 EZ-UAQ Utility							– 🗆 X
) Language	English - Q	Module Select Module	e	•			About
Basic /	Advanced Uploa	d Download (Certificate				
Storage path	۱ <i></i>	-Download					
C:\Users\RD	6-Sandy\Deskto	Log	Project	Modbu Configura	s tion		
Double click c	on Module Name or IP	Address to open the we	b interface of Modul	e.			
Select All	Module Name	Host Name	IP Address	MAC Address	Version	Response Time	Notes
	UA-5231M	UA-Series-68c90be4d6cc	192.168.82.201:80	68:c9:0b:e4:d6:cc	1.5.0.2/ 8.8.0/1.1.85	109ms	
	BRK-2841M	ICPDAS-BRK-2841M	192.168.255.60:80	00:0d:e0:18:2b:03	1.1.0.0	203ms	
🐡 Downl	loading projec	t file, please wai	t 92.168.84.81:80	00:0d:e0:18:2b:11	1.1.0.0	203ms	
	BRK-2841M	ICPDAS-BRK-2841M-84	192.168.84.80:80	00:0d:e0:18:2b:13	1.1.0.0	203ms	
	U-7526M	000de01820827000	192.168.82.202:80	00:0d:e0:b0:f0:00	13.3.0.0 / 16.10	203ms	

Figure 5-81 Download Project (4)

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

🙀 EZ-UAQ Utility							- 🗆 X		
Language:	English - Q	Module Select Module	e	•			About		
Basic A	dvanced Upload	d Download C	Certificate						
_┌ Storage path	Storage path Download								
C:\Users\RD0	C:\Users\RD6-Sandy\Deskto								
Double click of	n Module Name or IP	Address to open the we	eb interface of Mod	ule.					
Select All	Module Name	Host Name	IP Address	MAC Address	Version	Response Time	Notes		
	UA-5231M	UA-Series-68c90be4d6cc	192.168.82.201:80	68:c9:0b:e4:d6:cc	1.5.0.2/ 8.8.0/1.1.85	109ms			
	BRK-2841M	ICPDAS-BRK-2841M	192.168.255.60:80	00:0d:e0:18:2b:03	1.1.0.0	203ms			
	BRK-2841M	ICPDAS-BRK-2841M-84	192.168.84.81:80	00:0d:e0:18:2b:11	1.1.0.0	203ms			
	BRK-2841M	ICPDAS-BRK-2841M-84	192.168.84.80:80	00:0d:e0:18:2b:13	1.1.0.0	203ms			
	U-7526M	000de01820827000	192.168.82.202:80	00:0d:e0:b0:f0:00	13.3.0.0 / 16.10	203ms	Download successful		

Figure 5-82 Download Project (5)

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).

Project				_	\times
$\leftarrow \rightarrow \land \uparrow$	🔒 > Project	✓ ບັ Sear	ch Project		<i>م</i>
A Quicks	Name	Date modified	Туре	Size	
De 🖈	U-7526M_192.168.82.202_Project	2025/2/20 下午 02:29	File folder		

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

Download Modbus Configuration

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

Using the [Download Modbus 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 Configuration, please click **b** to select the storage folder.

👯 EZ-UAQ Utility									
Hanguage:	English - Q	Module Select Modul	e	•					
Basic A	dvanced Uploa	d Download (Certificate						
_┌ Storage path		Download							
C:\Users\RD0	C:\Users\RD6-Sandy\Deskto 📻 Log 🔂 Project Modbus Configuration								
Double click o	n Module Name or IP	Aldress to open the w	eb interface of Modul	e.					
Select All	Module Name	Host Name	IP Address	MAC Address	Version	Response Time			
	UA-5231(M)	UA-Jeries-f4e11e955a85	192.168.255.102:80	f4:e1:1e:95:5a:85	1.5.0.0/ 8.8.0/1.1.85	31ms			
	UA-5231	UA-Scries-1442fca93039	192.168.101.2:80	14:42:fc:a9:30:39	1.4.6.32/ 8.5.0/1.1.85	94ms			
	UA-5231M	UA-Series-68c90be4d6cc	192.168.82.201:80	68:c9:0b:e4:d6:cc	1.5.0.2/ 8.8.0/1.1.85	109ms			
	UA-5231(M)	UA-Series-f4e11e954e4c	192.168.85.216:80	f4:e1:1e:95:4e:4c	1.5.0.0/ 8.8.0/1.1.85	187ms			
	BRK-2841M	ICPDAS-BRK-2841M-84	192.168.84.81:80	00:0d:e0:18:2b:11	1.1.0.0	187ms			
	BRK-2841M	ICPDAS-BFK-2841M-84	192.168.84.80:80	00:0d:e0:18:2b:13	1.1.0.0	281ms			
	BRK-2841M	BRK-2841M 8461	192.168.84.61:80	00:0d:e0:18:2b:01	1.1.0.0	281ms			
	Fig	ure 5-83 Down	load Modbus	Configuration	(1)				
	Select Folder	•				×			
	$\leftrightarrow \rightarrow \cdot \cdot$	↑ → This PC → Desktop →	Modbus Configuration	✓ Č Sea	rch Modbus Configuration 🌙	D			
	Organize 🔻	New folder				2			
	This PC	Name	^ No i	Date modified tems match your search.	Type Size				
	Deskto	p pada y a							

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

Select Folder

Cancel

Folder: Modbus Configuration

EZ-UAQ Utility Hanguage: English - Q Module Select Module • Advanced Upload Download Certificate Basic Storage path Download Modbus C:\Users\RD6-Sandy\Deskto Project Log Configuration Double click on Module Name or IP Address to open the web interface of Module. Response Time Select All Module Name Host Name Version UA-5231(M) UA-Series-f4e11e955a85 192.168.255.102:80 1.5.0.0/ 8.8.0/1.1.85 31ms f4:e1:1e:95:5a:85 UA-5231 UA-Series-1442fca93039 192.168.101.2:80 14:42:fc:a9:30:39 1.4.6.32/ 8.5.0/1.1.85 94ms \checkmark 11A-Series-68c90be4d6cc 14-52311 192.168.82.201.80 68°c9°0b'e4'd6' 100m UA-Series-f4e11e954e4c 192.168.85.216:80 1.5.0.0/ 8.8.0/1.1.85 UA-5231(M) f4:e1:1e:95:4e:4c 187ms BRK-2841M ICPDAS-BRK-2841M-84... 192.168.84.81:80 00:0d:e0:18:2b:11 1.1.0.0 187ms BRK-2841M ICPDAS-BRK-2841M-84... 192.168.84.80:80 00:0d:e0:18:2b:13 1.1.0.0 281ms BRK-2841M BRK-2841M-8461 192.168.84.61:80 00:0d:e0:18:2b:01 1.1.0.0 281ms Figure 5-84 Download Modbus Configuration (2)

👫 EZ-UAQ Utility							- 🗆	×
🕀 Language:	English - Q	Module Select Module	9	•				About
Basic A	dvanced Upload	d Download (Certificate					
- Storage path		Download						
C:\Users\RD6-Sandy\Deskto								
Double click of	n Module Name or IP	Address to open the we	b interface of Modul	e.				
Select All	Module Name	Host Name	IP Address	MAC Address	Version	Response Time	Notes	
	UA-5231(M)	UA-Series-f4e11e955a85	192.168.255.102:80	f4:e1:1e:95:5a:85	1.5.0.0/ 8.8.0/1.1.85	31ms		
	UA-5231	UA-Series-1442fca93039	192.168.101.2:80	14:42:fc:a9:30:39	1.4.6.32/ 8.5.0/1.1.85	94ms		
	UA-5231M	UA-Series-68c90be4d6cc	192.168.82.201:80	68:c9:0b:e4:d6:cc	1.5.0.2/ 8.8.0/1.1.85	109ms		
	UA-5231(M)	UA-Series-f4e11e954e4c	192.168.85.216:80	f4:e1:1e:95:4e:4c	1.5.0.0/ 8.8.0/1.1.85	187ms		
	BRK-2841M	ICPDAS-BRK-2841M-84	192.168.84.81:80	00:0d:e0:18:2b:11	1.1.0.0	187ms		
	BRK-2841M	ICPDAS-BRK-2841M-84	192.168.84.80:80	00:0d:e0:18:2b:13	1.1.0.0	281ms		
🛟 Downl	oading the Mo	odbus configura	tion file, pleas	e wait :26:01	1.1.0.0	281ms		

Figure 5-85 Download Modbus Configuration (3)

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

🙀 EZ-UAQ Utility							- 🗆 X		
Language:	Language: English • Q Module Select Module • About								
Basic A	Basic Advanced Upload Download Certificate								
_┌ Storage path	Storage path Download								
C:\Users\RD	C:\Users\RD6-Sandy\Deskto								
Double click o	n Module Name or IP	Address to open the we	eb interface of Modul	e.					
Select All	Module Name	Host Name	IP Address	MAC Address	Version	Response Time	Notes		
	UA-5231(M)	UA-Series-f4e11e955a85	192.168.255.102:80	f4:e1:1e:95:5a:85	1.5.0.0/ 8.8.0/1.1.85	31ms			
	UA-5231	UA-Series-1442fca93039	192.168.101.2:80	14:42:fc:a9:30:39	1.4.6.32/ 8.5.0/1.1.85	94ms			
	UA-5231M	UA-Series-68c90be4d6cc	192.168.82.201:80	68:c9:0b:e4:d6:cc	1.5.0.2/ 8.8.0/1.1.85	109ms	Download successful		
	UA-5231(M)	UA-Series-f4e11e954e4c	192.168.85.216:80	f4:e1:1e:95:4e:4c	1.5.0.0/ 8.8.0/1.1.85	187ms			
	BRK-2841M	ICPDAS-BRK-2841M-84	192.168.84.81:80	00:0d:e0:18:2b:11	1.1.0.0	187ms			
	BRK-2841M	ICPDAS-BRK-2841M-84	192.168.84.80:80	00:0d:e0:18:2b:13	1.1.0.0	281ms			
	BRK-2841M	BRK-2841M-8461	192.168.84.61:80	00:0d:e0:18:2b:01	1.1.0.0	281ms			

Figure 5-86 Download Modbus Configuration (4)

Step4: The image below is for the downloaded file and storage path.

There will be three downloaded files: (ModbusToMQTT)Module_IP.xlsx,

(ModbusToOPCUA)Module_IP.xlsx, and (ModbusToOPCUADetails)Module_IP.xlsx. The two Excel files starting with (ModbusToMQTT) and (ModbusToOPCUA) are associated with the 'Update Modbus Configuration' function in the upload feature.

Modbus Config	guration			-		×
$\leftarrow \rightarrow \land \uparrow$	🔒 > Modbus Configuration 🗸 🗸	ڻ v	Search Modbus Cor	nfigurat	ion	Q
A Quick a	Name	Dat	te modified	Туре		
	(ModbusToMQTT)UA-5231M_192.168.82.201.xlsx	202	25/2/20下午 02:47	Micr	osoft Exc	:el ⊥
Dex	(ModbusToOPCUA)UA-5231M_192.168.82.201.xlsx	202	25/2/20下午 02:47	Micr	osoft Exc	:el ⊥
🔶 Do 🖈	(ModbusToOPCUADetails)UA-5231M_192.168.82.201.xlsx	202	25/2/20下午 02:47	Micr	osoft Exc	:el ⊥

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

5.2.5 Certificates

Summary:

The EZ-UAQ Utility provides an efficient and convenient certificate management function for generating certificates and updating them to modules. With this tool, users can easily configure secure communication among UA, UA I/O, and BRK series modules, supporting HTTPS, OPC UA, and MQTT protocols.

- 1. Efficient certificate generation and updates to reduce operational complexity.
 - Users can quickly generate certificates that meet security requirements and update them to all modules in the field with one click, significantly reducing configuration time.
 - The certificate configuration process is simplified, eliminating the need for manual operations on multiple modules, reducing error risks, and improving efficiency.
- 2. Comprehensive control over certificate status
 - Provides unified management of all certificates within the field. Users can query certificate information to ensure that certificates have not expired and are operating normally.

3. Enhance field security

• Supports mainstream encryption protocols such as HTTPS, OPC UA, and MQTT to ensure the security of data transmission.

Certificates are divided into two types of authentication methods: One-Way Authentication and Two-Way Authentication, both designed to ensure communication security. One-Way Authentication is the most common method, frequently used in communication between web browsers and applications, such as HTTPS and MQTT Brokers. Two-Way Authentication, also known as Mutual Authentication or Two-Way SSL, is a more advanced method. In addition to the server presenting its certificate, the client is also required to present its own certificate. Examples include communication between OPC UA Servers and OPC UA Clients, as well as between MQTT Brokers and MQTT Clients.

*Note: The UA and UA I/O series must connect to the module web page to enable the certificate function before module certificate communication can be activated.

> Add CA Certificate

Use **[Add CA Certificate]** feature to create a new CA certificate. Since certificates in the MQTT series must use a CA certificate as the root certificate, MQTT certificates are generated accordingly.

					- · · · · · · · · · · · · · · · · · · ·		
👫 EZ-UAQ Utility							- 🗆 ×
Language:	English - Q	Module Select Module	9	•			About
Basic A	dvanced Upload	d Download C	ertificate				
– Validity Perio	d — — — CA — — —	Update —				ile ———	
rte Ouerv	/ R Ne	ем П — нтт	OPC	UA Server	MQTT Broker	Export	
			ОРС	UA Client	MQTT Client	📔 Import	
Double click o	n Module Name or IP	Address to open the we	b interface of Modul	e.			
Select All	Module Name	Host Name	IP Address	MAC Address	Version	Response Time	Notes
	UA-2841M	UA-2841M-000de01820	192.168.1.103:80	00:0d:e0:18:20:0d	1.4.2.1/ 7.5.0/1.1.81	31ms	
	UA-5231	UA-Series-1442fca93039	192.168.101.2:80	14:42:fc:a9:30:39	1.4.6.32/ 8.5.0/1.1.85	31ms	

Step 1: Click the [New] button to open the 'Certificate Validity Date' window.

Figure 5-87 Add CA Certificate (1)

Step 2: Please enter the expiration days for the CA certificate in the 'Certificate Validity Date' window, then click OK.

 Please refer to <u>Appendix_C</u> for the certificate date input restrictions, which explain the limitations and recommendations for input.

👫 Certificate va	-		×	
🗹 Day	🗌 Month	□ Y	ear	
2				
	ОК			

Figure 5-88 Add CA Certificate (2)

Step 3: Next, a 'Creation Successful' message will pop up, indicating that the CA certificate has been successfully created. Click OK to complete the CA certificate creation process.

🥵 EZ-UAQ Utility		×
Cre	ate successfully	
	ОК	

Figure 5-89 Add CA Certificate (3)

> Update HTTPS Certificate

Use the [**Update HTTPS Certificate**] feature to allow users to quickly replace the HTTPS certificate on the module. This enables users to access the module's web page using HTTPS mode when logging in.

Step 1: Select the modules requiring certificate updates, then click the [HTTPS] button. A prompt box will appear, as shown in Figure 5-91, to ensure it is not an operational error. Then, click YES.

🥵 EZ-UAQ Utility	,					
) Languag	e: English •	Q Module Select M	odule	•		
Basic	Advanced Up	load Download	Certificate			
\lceil Validity Per	iod —— CA ——	Updat	e ————			File
		Now		OPC UA Server	MQTT Broker	首 Export
				OPC UA Client	MQTT Client	import
Double click	on Module Name o	or IP Address to open th	ie web interface o	f Module.		
Select All	Module Name	Host Name	P Address	MAC Address	Version	Response Time
	UA-5231M	UA-Series-68c90be4c	l6cc 192.168.82.20	1:80 68:c9:0b:e4:d6:cc	1.5.0.2/ 8.8.0/1.1.85	188ms
	BRK-2841M	ICPDAS-BRK-2841M-	84 192168.84.80:	80 00:0d:e0:18:2b:13	1.1.0.0	188ms
	BRK-2841M	ICPDAS-BRK-2841M-	84 192.158.84.81:	80 00:0d:e0:18:2b:11	1.1.0.0	266ms
	U-7526M	000de01820827000	192.16 .82.20	2:80 00:0d:e0:18:20:82	13.0.0.0 / 16.10	266ms
		Figure 5-90) Update H ⁻	TTPS Certificate	e (1)	
		👯 EZ-UAQ Utility	4		×	
		Are you su	ure you want to	o update the certific	cate?	

Figure 5-91 Update HTTPS Certificate(2)

Step 2: Please enter the expiration days for the CA certificate in the 'Certificate Validity Date' window, and then click OK.

 Please refer to <u>Appendix C</u> for certificate date input restrictions, which detail the limitations and recommendations for input.

🥵 Certificate va	alidity date	-		×
🗹 Day	🗌 Month	□ Y	ear	
2				
	OK			
	JU NO			

Figure 5-92 Update HTTPS Certificate (3)

Step 3: A Password window will pop up. Please enter the EZ-UAQ Utility password set in the module, then click OK. The interface will display 'Updating Certificate, Please Wait,' indicating that the update process has started.

👯 Password	-		×
Password			
*COCOCOCOR			
OK			
iqure 5-93 Update	HTTPS	Certif	icate (

🙀 EZ-UAQ Utility							– 🗆 X
🕀 Language:	English - Q	Module Select Module	e	•			About
Basic A	dvanced Upload	Download C	Certificate				
- Validity Perio	d — CA —	Update				- File	
Cuen		w HT	OPC	UA Server	MQTT Broker	Export	
ing duci			ОРС	UA Client	MQTT Client	Import	
Double click o	n Module Name or IP	Address to open the we	eb interface of Modul	e.			
Select All	Module Name	Host Name	IP Address	MAC Address	Version	Response Time	Notes
	UA-5231M	UA-Series-68c90be4d6cc	192.168.82.201:80	68:c9:0b:e4:d6:cc	1.5.0.2/ 8.8.0/1.1.85	188ms	
🚯 Updati	ng certificate,	please wait -84	192.168.84.80:80	00:0d:e0:18:2b:13	1.1.0.0	188ms	
	BRK-2841M	ICPDAS-BRK-2841M-84	192.168.84.81:80	00:0d:e0:18:2b:11	1.1.0.0	266ms	
	U-7526M	000de01820827000	192.168.82.202:80	00:0d:e0:18:20:82	13.0.0.0 / 16.10	266ms	

Figure 5-94 Update HTTPS Certificate (5)

Step 4: When the update is successful, the word 'Update Successful' will appear in the [Notes] column of the selected module.

🥵 EZ-UAQ Utility							- 🗆 X
Language:	English - Q	Module Select Module	e	•			About
Basic A	dvanced Upload	d Download C	Certificate				
- Validity Peric	ud CA	Update				T File ———	7
			O	PC UA Server	MQTT Broker	Export	
Query			o	PC UA Client	MQTT Client	import	
Double click o	n Module Name or IP	Address to open the we	eb interface of Moo	dule.			
Select All	Module Name	Host Name	IP Address	MAC Address	Version	Response Time	Notes
	UA-5231M	UA-Series-68c90be4d6cc	192.168.82.201:80	68:c9:0b:e4:d6:cc	1.5.0.2/ 8.8.0/1.1.85	188ms	Update successful
	BRK-2841M	ICPDAS-BRK-2841M-84	192.168.84.80:80	00:0d:e0:18:2b:13	1.1.0.0	188ms	
	BRK-2841M	ICPDAS-BRK-2841M-84	192.168.84.81:80	00:0d:e0:18:2b:11	1.1.0.0	266ms	
	U-7526M	000de01820827000	192.168.82.202:80	00:0d:e0:18:20:82	13.0.0.0 / 16.10	266ms	Update successful

Figure 5-95 Update HTTPS Certificate (6)

After completing the steps above, use the Port number to access the webpage. This will indicate whether the HTTPS connection has been enabled. (Please refer to <u>Appendix D</u>)



*	in .	-75269	a.			×	+						0	×
÷	÷	с	25	192.1	68.82.20	2:0000				\$	Ď	=V	0	i
88		ė	•		Certific General	ate V Detai	iewer: U ×	7526M_192.168.62.20	2_20250324063641	×	39		Hooke	Series.
					Issued To Comm Drgan Drgan	on hian izat on -	ne (CN) (O) J Unit (OU)	U-7526M_192.168.82.202_20 ICPDAS In: R&D 9 Department	250124063641					
					Resert By Comm Digan Digan	en Nan Iaat on I Iaat ona	na (CN) (O) 1 Unit (OU)	U 7525Kr_192 168.52.252_20 ICPOAS Inc. R&D 9 Department	250324063641					
			/		Validity Pe Issued Expire	rical On s Dn		Moniday, March 24, 2025 at 2 Wednesolay, March 26, 2025	136/31PM # 2136/31PM					
			(D	SHA 256 Fingciprin	L						,	•	
					Certify Public	ishe Key	5#4/ 22/5# 6/5# #16/	Heeffeldsze (20.505500447466 HilderdelseseceMestowiters	Cleb159cb1/9beb4c.m212a 88531a001516a3e150239a	622)4 515e7				

Figure 5-96 Update HTTPS Certificate Web



> Update OPC UA Server & OPC UA Client Certificate

Use the [Update OPC UA Server Certificate] [Update OPC UA Server Certificate]

feature to allow users to quickly replace the OPC UA Server and OPC UA Client certificates on the module. When users communicate using the OPC UA protocol to exchange messages, certificates enhance security during the message exchange. The following explains how UA and UA I/O modules handle OPC UA certificates for secure data transmission via OPC UA encryption. (Please refer to <u>Appendix_A</u> Module function Support)



Use the UA communication server and UA I/O modules for handling OPC UA certificates

UA Step Process: Select the UA modules that need certificate updates, then click the [OPC UA Server] button. A prompt box will appear, as shown in Figure 5-99, to confirm that it is not an operational error. Then, click YES.

🚳 EZ-UAQ Utility						-
🕀 Language:	English - Q	Module Select Module	e	•		
Basic A	Advanced Upload	d Download C	Certificate			
_┌ Validity Perio	od CA	Update —			Fi	le
👬 Quen		м Ал	OPC	UA Server	MQTT Broker	Export
			ОРС	UA Client	MQTT Client	import
Double click o	n Module Name or IP	Address to open the we	eb interface of Modu	le.		
Select All	Module Name	Host Name	IP Address	MAC Address	Version	Response Time
	UA-7231M	UA-Series-ac1f0fbead4a	192.168.85.230:80	ac:1f:0f:be:ad:4a	1.4.6.26/ 8.5.0/1.1.85	234ms
	UA-5231M	UA-Series-68c90be4d6cc	192.168.82.201:80	68:c9:0b:e4:d6:cc	1.5.2.1 Local Datalog	250ms
	UA-5231	UA-Series-1442fca93039	192.168.101.2:80	14:42:fc:a9:30:39	1.4.6.32/ 8.5.0/1.1.85	250ms
	BRK-2841M	BRK-2841M-8461	192.168.84.61:80	00:0d:e0:18:2b:01	1.1.0.0	375ms
	U-7526M	000de01820827000	192.168.82.202:80	00:0d:e0:b0:f0:00	13.0.0.0 / 16.10	390ms
	U-7526M	000de01820117000	192.168.102.1:80	00:0d:e0:18:20:11	12.0.0.0 / 15.9	515ms

Figure 5-98 UA and UA I/O Modules - Updating OPC UA Server Certificates (1)



Figure 5-99 UA and UA I/O Modules - Updating OPC UA Server Certificates (2)

Please enter the expiration days for the CA certificate in the 'Certificate Validity Date' window, and then click OK.

Please refer to <u>Appendix C</u> for certificate date input restrictions, which detail the limitations and recommendations for input.

🥵 Certificate validity date					
🗌 Month	🗌 Yea	r			
ОК					
	lidity date	lidity date – Month Year OK	lidity date – – – – – – – – – – – – – – – – – – –		

Figure 5-100 UA and UA I/O Modules - Updating OPC UA Server Certificates (3)

A Password window will pop up. Please enter the EZ-UAQ Utility password set in the module, then click OK. The interface will display 'Updating Certificate, Please Wait,' indicating that the update process has started.

🥵 Password	_	×
Password		

OK		

Figure 5-101 UA and UA I/O Modules - Updating OPC UA Server Certificates (4)

🚯 EZ-UAQ Utility —									
Language: English A Module Select Module									
Basic A	dvanced Upload	d Download C	Certificate						
Validity Period CA Update- Query New HTTPS OPC UA Server MQTT Broker Export						File Export			
				OPC UA Client	MQTT Client	Import			
Double click or	n Module Name or IP	Address to open the we	b interface of N	Aodule.					
Select All	Module Name	Host Name	IP Address	MAC Address	Version	Response Time			
	UA-7231M	UA-Series-ac1f0fbead4a	192.168.85.230:80	0 ac:1f:0f:be:ad:4a	1.4.6.26/ 8.5.0/1.1.85	234ms			
🌑 Updati	ng certificate,	please wait docc	192.168.82.201:80	0 68:c9:0b:e4:d6:cc	1.5.2.1 Local Datalog	250ms			
	UA-5231	UA-Series-1442fca93039	192.168.101.2:80	14:42:fc:a9:30:39	1.4.6.32/ 8.5.0/1.1.85	250ms			
	BRK-2841M	BRK-2841M-8461	192.168.84.61:80	00:0d:e0:18:2b:01	l 1.1.0.0	375ms			
	U-7526M	000de01820827000	192.168.82.202:80	0 00:0d:e0:b0:f0:00	13.0.0.0 / 16.10	390ms			
	U-7526M	000de01820117000	192.168.102.1:80	00:0d:e0:18:20:11	12.0.0.0 / 15.9	515ms			

Figure 5-102 UA and UA I/O Modules - Updating OPC UA Server Certificates (5)

When the update is successful, the word 'Update Successful' will appear in the [Notes] column of the selected module.

🥵 EZ-UAQ Utility							- 🗆 ×
Language: English · Q Module Select Module ·							About
Basic A	Advanced Uploa	d Download C	Certificate				
_□ Validity Perio	od — CA — —	Update —			Fi	le	
Cuon	,) <mark>=</mark> N/		OPC	UA Server	MQTT Broker	Export	
Cuery			OPC	UA Client	MQTT Client	import	
Double click o	n Module Name or IP	Address to open the we	eb interface of Modul	e.			
Select All	Module Name	Host Name	IP Address	MAC Address	Version	Response Time	Notes
	UA-7231M	UA-Series-ac1f0fbead4a	192.168.85.230:80	ac:1f:0f:be:ad:4a	1.4.6.26/ 8.5.0/1.1.85	234ms	
	UA-5231M	UA-Series-68c90be4d6cc	192.168.82.201:80	68:c9:0b:e4:d6:cc	1.5.2.1 Local Datalog	250ms	Update successful
	UA-5231	UA-Series-1442fca93039	192.168.101.2:80	14:42:fc:a9:30:39	1.4.6.32/ 8.5.0/1.1.85	250ms	
	BRK-2841M	BRK-2841M-8461	192.168.84.61:80	00:0d:e0:18:2b:01	1.1.0.0	375ms	
	U-7526M	000de01820827000	192.168.82.202:80	00:0d:e0:b0:f0:00	13.0.0.0 / 16.10	390ms	
	U-7526M	000de01820117000	192.168.102.1:80	00:0d:e0:18:20:11	12.0.0.0 / 15.9	515ms	

Figure 5-103 UA and UA I/O Modules - Updating OPC UA Server Certificates (6)

UA I/O Procedure Flow: Select the UA module that requires a certificate update, then click the **[OPC UA Client]** button. A prompt will appear, as shown in Figure 5-105, to ensure the action was not accidental. Next, click "YES."

🥵 EZ-UAQ Utility										
Hanguage: English → Q Module Select Module →										
Basic A	Basic Advanced Upload Download Certificate									
_┌ Validity Perio	od — CA — —	Update —		-	Fi	le —				
觉 Quen		и С нт	O	PC UA Server	MQTT Broker	Export				
			0	PC UA Client	MQTT Client	📔 Import				
Double click o	n Module Name or IP	Address to open the we	b interface of Mod	dule.						
Select All	Module Name	Host Name	IP Address	MAC Address	Version	Response Time				
	UA-2241M	UA-Series-684749ecb709	192.168.82.91:80	68:47:49:ec:b7:09	1.4.6.29/ 8.5.0/1.1.85	171ms				
	UA-5231M	UA-Series-f4e11e955a85	192.168.255.102:80	f4:e1:1e:95:5a:85	1.5.0.0/ 8.8.0/1.1.85	250ms				
	UA-5231M	UA-Series-68c90be4d6cc	192.168.82.201:80	68:c9:0b:e4:d6:cc	1.5.2.1 Local Datalog	265ms				
	UA-5231(M)	UA-Series-247d4d13e658	192.168.85.100:80	24:7d:4d:13:e6:58	1.5.0.2/ 8.8.0/1.1.85	265ms				
	BRK-2841M	BRK-2841M-8461	192.168.84.61:80	00:0d:e0:18:2b:01	1.1.0.0	265ms				
	U-7526M	000de01820827000	192.168.82.202:80	00:0d:e0:b0:f0:00	13.0.0.0 / 16.10	359ms				

Figure 5-104 UA and UA I/O Modules - Updating OPC UA Client Certificates (1)



Figure 5-105 UA and UA I/O Modules - Updating OPC UA Client Certificates (2)

Please enter the expiration days for the CA certificate in the 'Certificate Validity Date' window, and then click OK.

Please refer to <u>Appendix C</u> for certificate date input restrictions, which detail the limitations and recommendations for input.

👯 Certificate va	_		×	
🗹 Day	🗌 Month	□ Ye	ear	
2				
	OK			

Figure 5-106 UA and UA I/O Modules - Updating OPC UA Client Certificates (3)

A Password window will pop up. Please enter the EZ-UAQ Utility password set in the module, then click OK. The interface will display 'Updating Certificate, Please Wait,' indicating that the update process has started.

👯 Password	_	\times
Password		
OK		

Figure 5-107 UA and UA I/O Modules - Updating OPC UA Client Certificates (4)

👫 EZ-UAQ Utility						-	- 🗆 X
🕀 Language:	English - Q	Module Select Module	5	•			About
Basic A	dvanced Upload	d Download C	ertificate				
- Validity Perio	d CA	Update			Fi	le	
Cuery			OPC	UA Server	MQTT Broker	Export	
Query			ОРС	UA Client	MQTT Client	1 Import	
Double click or	n Module Name or IP	Address to open the we	b interface of Modul	e.			
Select All	Module Name	Host Name	IP Address	MAC Address	Version	Response Time	Notes
	UA-2241M	UA-Series-684749ecb709	192.168.82.91:80	68:47:49:ec:b7:09	1.4.6.29/ 8.5.0/1.1.85	171ms	
	UA-5231M	UA-Series-f4e11e955a85	192.168.255.102:80	f4:e1:1e:95:5a:85	1.5.0.0/ 8.8.0/1.1.85	250ms	
🔹 Updati	ng certificate,	please wait d6cc	192.168.82.201:80	68:c9:0b:e4:d6:cc	1.5.2.1 Local Datalog	265ms	
	UA-5231(M)	UA-Series-247d4d13e658	192.168.85.100:80	24:7d:4d:13:e6:58	1.5.0.2/ 8.8.0/1.1.85	265ms	
	BRK-2841M	BRK-2841M-8461	192.168.84.61:80	00:0d:e0:18:2b:01	1.1.0.0	265ms	
	U-7526M	000de01820827000	192.168.82.202:80	00:0d:e0:b0:f0:00	13.0.0.0 / 16.10	359ms	

Figure 5-108 UA and UA I/O Modules - Updating OPC UA Client Certificates (5)

When the update is successful, the word 'Update Successful' will appear in the [Notes] column of the selected module.

🥵 EZ-UAQ Utility							- 🗆 ×
Language:	English • Q	Module Select Module	2	•			About
Basic A	dvanced Upload	d Download C	ertificate				
_┌ Validity Perio	d — CA — CA	Update —		_	Fil	e	
			OPC	UA Server	MQTT Broker	Export	
Query			PS OPC	UA Client	MQTT Client	Import	
Double click o	n Module Name or IP	Address to open the we	b interface of Modul	e.			
Select All	Module Name	Host Name	IP Address	MAC Address	Version	Response Time	Notes
	UA-2241M	UA-Series-684749ecb709	192.168.82.91:80	68:47:49:ec:b7:09	1.4.6.29/ 8.5.0/1.1.85	171ms	
	UA-5231M	UA-Series-f4e11e955a85	192.168.255.102:80	f4:e1:1e:95:5a:85	1.5.0.0/ 8.8.0/1.1.85	250ms	
	UA-5231M	UA-Series-68c90be4d6cc	192.168.82.201:80	68:c9:0b:e4:d6:cc	1.5.2.1 Local Datalog	265ms	
	UA-5231(M)	UA-Series-247d4d13e658	192.168.85.100:80	24:7d:4d:13:e6:58	1.5.0.2/ 8.8.0/1.1.85	265ms	
	BRK-2841M	BRK-2841M-8461	192.168.84.61:80	00:0d:e0:18:2b:01	1.1.0.0	265ms	
	U-7526M	000de01820827000	192.168.82.202:80	00:0d:e0:b0:f0:00	13.0.0.0 / 16.10	359ms	Update successful

Figure 5-109 UA and UA I/O Modules - Updating OPC UA Client Certificates(6)

Next, upload the trusted certificate. The process is as follows.

1. Click the **[Export]** function in the EZ-UAQ Utility and enter the password for the compressed file. Then, select the storage path. After exporting the OPC UA certificate, first decompress the exported certificate file (the compressed file password will be required).

2. **Import File Certificate**: Then, use the UA and UA I/O web pages to import the certificates separately.

UA Webpage: First, go to the Functional Area and select (Master) Modbus TCP ⇔ OPC UA. Then, click on OPC UA Certificate > Choose File > Upload. Select the file: (icpdasuaclient.der)

UA I/O Webpage: Click on OPC UA Settings > Client Certificate > Upload. Select the file: (icpdasuaserver.der)

Open the "EZ-UAQ Utility_Certificate_2xxx_xx_ folder, navigate to the OPC UA folder, select the required file, and then import the file.

The "Upload" button showing success on the right indicates that the OPC UA certificate has been successfully imported.

✓ ③ 192.168.82.201/Main.html × + -	✓
← → C ▲不安全 192.168.82.201/Main.html 💿 臨 🔍 🛧	← → C (▲不安全) 192.168.82.201/Main.html 💿 🔄 Q 🕁
»	» [
	ICP UA-2200/5200 (Master) Modeus TCP - OPC UA
CPAS ICP DAS CO., LTD Wizard User: CPU 17% Memory 3524% SD Card 1%	DAS 100 Communication Server
Module Setting > OPC UA Connection > OPC UA Certificate > Enable Converting Module > Save Project >	Module Setting > OPC UA Connection > OPC UA Certificate > Enable Converting Module > Save Project >
Run the project	Run the project
System Setting Module Setting IoT Platform Setting Convert Setting Advanced Setting Logger Setting	System Setting Module Setting IoT Platform Setting Convert Setting Advanced Setting Logger Setting
I/O Status File Setting	I/O Status File Setting
Project Ele OPC UA Certificate	File Setting OPC UA Certificate OPC UA Server
OPC UA Certificate Remove the File	OPC UA Certificate Remove the File
MQTT Certificate Trusted Certificate Remove	MQTT Certificate Trusted Certificate Remove
Log File Download OPC UA Server Certificate Remove	Log File Download OPC UA Server Certificate Remove
Firmware Update	Firmware Update
Trusted Certificate Select File Upload	Trusted Certificate Select File Upload Success
Download the file from controller	Download the file from controller
OPC UA Server Certificate Download	OPC UA Server Certificate Download
▼ 1 U-7526M × + - □ >	· · · · · · · · · · · · · · · · · · ·
← → C ▲不安全 192.168.82.202 ☆ 名	← → C ▲ ≭ 🕿
※ □ 所有書	8 》 C 所有書類
ICP UA I/O	ICP UA I/O
DAS ICP DAS CO, LTD.	DAS ICP DAS CO., LTD.
System Settings Module Settings OPC UA Settings MQTT Settings Advanced Settings	System Settings Module Settings OPC OA Settings MiQ11 Settings Advanced Settings
Server Settings Download the file from device	Server Settings Download the file from device
Server Certificate Client Certificate Download	Server Certificate Client Certificate Download
Client Settings	Client Settings
Client Certificate	Client Certificate
Upload the file to the device	Upload the file to the device
Server Trusted Certificate Upload	Server Trusted Certificate Upload Success

Next, click on OPC UA Connection on the UA webpage > Local Server Settings, and enable the certificate login function (as shown in the figure).

♥ ③ 192.168.82.201/Main	n.html × +		✓ ③ 192.168.82.201/Main	n.html × +		-
← → C ▲ 不安	2 192.168.82.201/Main.html	0	← → C ▲ 不安	192.168.82.201/Main.html		∞ ⊑ ⊂ ☆
計 🧟 ICP DAS 🧟 後	端管理系統 🀫 BPM 🚷 Welcor	me to TIPTOP 🧟 後端管理系統	🔡 🎪 ICP DAS 🎪 🍇	端管理系统 🏹 BPM 🔇 Welcon	me to TIPTOP 🥡 後端管理系統	» C
ICP DAS CO., LTD.	00 tion Server	(Master) Modbus TCP ↔ OPC UA	ICP DAS CO., LTD.	0 tion Server	(Master) Modbus TCP \Rightarrow OPC UA	
Module Setting > OPC	UA Connection > OPC UA Ce	tificate > Enable Converting Module	Module Setting > OPC	UA Connection > OPC UA Ce	rtificate > Enable Converting Module	28.81% sD card 1%
Run the project			Run the project			
System Setting Modul	e Setting IoT Platform Setting	Convert Setting Advanced Setting	System Setting Modul	e Setting IoT Platform Setting	Convert Setting Advanced Set	ting Logger Setting
1/O Status File Setting			1/O Status File Setting			
IoT Platform Setting Local Set	rver		IoT Platform Setting Local Set	rver		
Local Broker	Security Setting		Local Broker	Security Setting		
Remote Broker MQTT Group Connection Microsoft Azure Platform	Security Policy	None Sig Basic128Rsa15 Sig Basic256 Sig Basic256Sha256 Aes128_Sha256_RsaOaep	Remote Broker MQTT Group Connection Microsoft Azure Platform	Security Policy	 None Basic128Rsa15 Basic256 Basic256Sha256 Aes128_Sha256_RsaOaep 	Sign, Sign and Encrypt Sign, Sign and Encrypt Sign Sign Sign Sign
ODC UA Competing		Aes256_Sha256_RsaPss			Aes256_Sha256_RsaPss	Sign 🗸
Local Server	User Identity Tokens		Local Server	User Identity Tokens		
•	Anonymous Login	Enabled	•	Anonymous Login	Enabled	
	User Password Login	Enabled		User Password Login	Enabled	
	Certificate Login	Enabled		Certificate Login	Enabled	
		Save			Save Success.	

After completing the above steps, go to the UA I/O webpage, click on OPC UA Settings > Client Settings > Connect and Get Node button.

♥ (J.7526M	× +	
← → C 🤇	▲ 不安全 192.168.82.202	
ICP UA IO)	
System Settings	Module Settings OPC UA Settin	gs MQTT Settings Advanced Settings
Server Settings	Functional Status	
Server Certificate	OPC UA Client Settings	Enable
Client Settings Client Certificate		Save
	Connection Settings	
	IP	192.168.82.201
	Port	48010
	Security Policy	None ~
	Message Security Mode	None ~
	Authentication Settings	Certificate & Private Key ~
	Certificate icpdasuaclient.der	Upload
	Private Key icpdasuaclient.pem	Upload
	Sampling Interval (ms)	1000
	Test Connection (Enter settings, click here ⇒)	Connect and get the Node Id

When the "Connect and Get Node ID" button shows success on the right, it indicates that the connection test using the certificate was successful.

System Settings	Module Settings	OPC UA Settings	MQTT Settings	Advanced Settings
Server Settings	Functional Sta	atus		
Server Certificate	OPC U/	A Client Settings	Enable	
Client Settings				
Client Certificate			Save	
	Connection S	ettings		
		IP	192.168.82.201	
		Port	48010	
		Security Policy	None	~
	Messag	e Security Mode	None	~
	Auther	ntication Settings	Certificate & Private Ke	/ ~
	icp	Certificate dasuaclient.der	Upload	
	icpd	Private Key asuaclient.pem	Upload	
	Samp	ling Interval (ms)	1000	
	(Takas a this	Test Connection	Connect and get the Nod	e Id Success

> Update MQTT Broker & MQTT Client Certificates

Use the **[Update MQTT Broker Certificate]** and **[Update MQTT Client Certificate]** functions to allow users to quickly replace the MQTT Broker & MQTT Client certificates on the module. When users communicate and exchange messages using the MQTT protocol, certificates can enhance security during message exchanges.

The following explains how to use the BRK module, UA I/O module, and UA module for MQTT certificates. (Please refer to <u>Appendix A</u> Module Function Support)



• Using the BRK Communication Server and UA I/O Module for MQTT Certificate

BRK Procedure Flow: Select the BRK Communication Server that requires a certificate update, then click the **[MQTT Broker]** button. A prompt will appear, as shown in Figure 5-111, to ensure the action was not accidental. Next, click "YES."

REZ-UAQ Utility —										
Language: English • Q Module Select Module •										
Basic A	Basic Advanced Upload Download Certificate									
Validity Peric	v CA	Update —	OPC	UA Server	MQTT Broker	e Export				
			ОРС	UA Client	MQT Client	📔 Import				
Double click o	n Module Name or IP	Address to open the we	b interface of Modul	e.						
Select All	Module Name	Host Name	IP Address	MAC Address	/ersion	Response Time				
	UA-5231M	UA-Series-f4e11e955a85	192.168.255.102:80	f4:e1:1e:95:5a:85	1.5.0.0/ 8.8.0/1.1.85	32ms				
	UA-5231	UA-Series-1442fca93039	192.168.101.2:80	14:42:fc:a9:30:39	1.4.6.32/ 8.5.0/1.1.85	94ms				
	UA-5231M	UA-Series-68c90be4d6cc	192.168.82.201:80	68:c9:0b:e4:d6:cc	1.5.2.1 Local Datalog	94ms				
	BRK-2841M	BRK-2841M-8461	192.168.84.61:80	00:0d:e0:18:2b:01	1.1.0.0	110ms				
	BRK-2841M	ICPDAS-BRK-2841M-84	192.168.84.80:80	00:0d:e0:18:2b:13	1.1.0.0	188ms				
	BRK-2841M	ICPDAS-BRK-2841M-84	192.168.84.81:80	00:0d:e0:18:2b:11	1.1.0.0	203ms				
	BRK-2841M	ICPDAS-BRK-2841M	192.168.255.60:80	00:0d:e0:18:2b:01	1.1.0.0	203ms				
	U-7526M	000de01820827000	192.168.82.202:80	00:0d:e0:b0:f0:00	13.0.0.0 / 16.10	203ms				

Figure 5-110 MQTT Certificates with BRK and UA I/O - Updating the MQTT Broker Certificate(1)

🙀 EZ-UAQ Utility	-		\times
Are you sure you want to upda	te the ce	ertificat	e?
NO		YH	S

Figure 5-111 MQTT Certificates with BRK and UA I/O - Updating the MQTT Broker Certificate(2)

If the following message appears, it indicates that the EZ-UAQ Utility has not generated a CA certificate. Users can choose whether to generate a 5-year CA certificate using the EZ-UAQ Utility. If this function is not used, users can alternatively use the [Add] function to create a

new CA certificate, or use the [Import] function to import third-party CA certificate and key files as the basis for MQTT certificates.



Figure 5-112 MQTT Certificates with BRK and UA I/O - Updating the MQTT Broker Certificate(3)

Please enter the expiration days for the CA certificate in the 'Certificate Validity Date' window, and then click OK.

Please refer to <u>Appendix C</u> for certificate date input restrictions, which detail the limitations and recommendations for input.



Figure 5-113 MQTT Certificates with BRK and UA I/O - Updating the MQTT Broker Certificate(4)

A Password window will pop up. Please enter the EZ-UAQ Utility password set in the module, then click OK. The interface will display 'Updating Certificate, Please Wait,' indicating that the update process has started.

👯 Password	_	×
Password		

OK		

Figure 5-114 MQTT Certificates with BRK and UA I/O - Updating the MQTT Broker Certificate(5)

👫 EZ-UAQ Utility							-	
Language:	English - Q	Module Select Module	e	•				About
Basic A	dvanced Upload	d Download C	Certificate					
- Validity Perio	d — CA — —	Update			Fi	le		
			OPC	UA Server	MQTT Broker	Export		
Query	Ne	ew 📗 🔒 HTI	rps					
			OPC	UA Client	MQTT Client	Import		
Double click or	n Module Name or IP	Address to open the we	eb interface of Modul	e.				
Select All	Module Name	Host Name	IP Address	MAC Address	Version	Response Time	Notes	
	UA-5231M	UA-Series-f4e11e955a85	192.168.255.102:80	f4:e1:1e:95:5a:85	1.5.0.0/ 8.8.0/1.1.85	32ms		
	UA-5231	UA-Series-1442fca93039	192.168.101.2:80	14:42:fc:a9:30:39	1.4.6.32/ 8.5.0/1.1.85	94ms		
	UA-5231M	UA-Series-68c90be4d6cc	192.168.82.201:80	68:c9:0b:e4:d6:cc	1.5.2.1 Local Datalog	94ms		
	BRK-2841M	BRK-2841M-8461	192.168.84.61:80	00:0d:e0:18:2b:01	1.1.0.0	110ms		
	BRK-2841M	ICPDAS-BRK-2841M-84	192.168.84.80:80	00:0d:e0:18:2b:13	1.1.0.0	188ms		
	BRK-2841M	ICPDAS-BRK-2841M-84	192.168.84.81:80	00:0d:e0:18:2b:11	1.1.0.0	203ms		
🚯 Updati	ng certificate,	please wait	192.168.255.60:80	00:0d:e0:18:2b:03	1.1.0.0	203ms		
	U-7526M	000de01820827000	192.168.82.202:80	00:0d:e0:b0:f0:00	13.0.0.0 / 16.10	203ms		
	U-7526M	000de01820117000	192.168.102.1:80	00:0d:e0:18:20:11	12.0.0.0 / 15.9	297ms		

Figure 5-115 MQTT Certificates with BRK and UA I/O - Updating the MQTT Broker Certificate(6)

When the update is successful, the word 'Update Successful' will appear in the [Notes] column of the selected module.

👯 EZ-UAQ Utility							– 🗆 X	
Basic A	Advanced Uploa	ad Download (Certificate					
_┌ Validity Perio	od —CA —	Update —			Fi	le		
			OPC	UA Server	MQTT Broker	Export		
📆 Query	y 🚾 N	lew 🛛 🗖 📥 HT	TPS	i=		-		
			OPC	UA Client	MQTT Client	📔 Import		
Double click o	n Module Name or I	P Address to open the w	eb interface of Modu	le.		1		
Select All	Module Name	Host Name	IP Address	MAC Address	Version	Response Time	Notes	
	UA-5231M	UA-Series-f4e11e955a85	192.168.255.102:80	f4:e1:1e:95:5a:85	1.5.0.0/ 8.8.0/1.1.85	32ms		
	UA-5231	UA-Series-1442fca93039	192.168.101.2:80	14:42:fc:a9:30:39	1.4.6.32/ 8.5.0/1.1.85	94ms		
	UA-5231M	UA-Series-68c90be4d6cc	192.168.82.201:80	68:c9:0b:e4:d6:cc	1.5.2.1 Local Datalog	94ms		
	BRK-2841M	BRK-2841M-8461	192.168.84.61:80	00:0d:e0:18:2b:01	1.1.0.0	110ms	Update successful	
	BRK-2841M	ICPDAS-BRK-2841M-84	192.168.84.80:80	00:0d:e0:18:2b:13	1.1.0.0	188ms		
	BRK-2841M	ICPDAS-BRK-2841M-84	192.168.84.81:80	00:0d:e0:18:2b:11	1.1.0.0	203ms		
	BRK-2841M	ICPDAS-BRK-2841M	192.168.255.60:80	00:0d:e0:18:2b:03	1.1.0.0	203ms		
	U-7526M	000de01820827000	192.168.82.202:80	00:0d:e0:b0:f0:00	13.0.0.0 / 16.10	203ms		

Figure 5-116 MQTT Certificates with BRK and UA I/O - Updating the MQTT Broker Certificate(7)

For the BRK series, after updating the certificates through the EZ-UAQ Utility, the MQTT Broker certificate function will be automatically enabled.

UA I/O Procedure Flow: Select the UA I/O module that requires a certificate update, then click the [MQTT Client] button. A prompt will appear, as shown in Figure 5-118, to ensure the action was not accidental. Next, click "YES."

櫾 EZ-UAQ Utility						
🕀 Language:	English - Q	Module Select Module	e	•		
Basic A	dvanced Upload	d Download C	Certificate			
- Validity Perio	d — CA — CA — Ne	Update —		OPC UA Server	MQTT Broker	File-
				OPC UA Client	MQTT Client	盲 Import
Double click o	n Module Name or IP	Address to open the we	eb interface of M	odule.		·
Select All	Module Name	Host Name	IP Address	MAC Address	Vrrsion	Response Time
	UA-5231M	UA-Series-68c90be4d6cc	192.168.82.201:80	68:c9:0b:e4:d6:cc	1.5.2.1 Local Datalo	g 15ms
	UA-5231M	UA-Series-f4e11e955a85	192.168.255.102:80	0 f4:e1:1e:95:5a:85	1.5.0.0/ 8.8.0/1.1.85	15ms
	UA-5231	UA-Series-1442fca93039	192.168.101.2:80	14:42:fc:a9:30:39	1.4.6.32/ 8.5.0/1.1.85	5 15ms
	BRK-2841M	BRK-2841M-8461	192.168.84.61:80	00:0d:e0:18:2b:01	l 1.1.0.0	94ms
	BRK-2841M	ICPDAS-BRK-2841M-84	192.168.84.80:80	00:0d:e0:18:2b:1	1.1.0.0	172ms
	BRK-2841M	ICPDAS-BRK-2841M-84	192.168.84.81:80	00:0d:e0:18:2b11	L 1.1.0.0	172ms
	BRK-2841M	ICPDAS-BRK-2841M	192.168.255.60:80	00:0d:e0:18:76:03	3 1.1.0.0	172ms
	U-7526M	000de01820827000	192.168.82.202:80	00:0d:e0:b/):f0:00	13.0.0.0 / 16.10	172ms

Figure 5-117 MQTT Certificates with BRK and UA I/O - Updating the MQTT Client Certificate(1)



Figure 5-118 MQTT Certificates with BRK and UA I/O - Updating the MQTT Client Certificate(2)

If the following message appears, it indicates that the EZ-UAQ Utility has not generated a CA certificate. The user can choose whether to have the EZ-UAQ Utility generate a 5-year CA certificate. If this function is not used, the user can also use the [Add] function to generate a new CA certificate, or use the [Import] function to import third-party CA certificate and Key files as the basis for the MQTT certificate.



Figure 5-119 MQTT Certificates with BRK and UA I/O - Updating the MQTT Client Certificate(3)

Please enter the expiration days for the CA certificate in the 'Certificate Validity Date' window, and then click OK.

Please refer to <u>Appendix C</u> for certificate date input restrictions, which detail the limitations and recommendations for input.



Figure 5-120 MQTT Certificates with BRK and UA I/O - Updating the MQTT Client Certificate(4)

A Password window will pop up. Please enter the EZ-UAQ Utility password set in the module, then click OK. The interface will display 'Updating Certificate, Please Wait,' indicating that the update process has started.

👯 Password	_	×
Password		
OK		

Figure 5-121 MQTT Certificates with BRK and UA I/O - Updating the MQTT Client Certificate(5)

🙀 EZ-UAQ Utility							-	
🕀 Language:	English - Q	Module Select Module	<u>j</u>	•				About
Basic A	dvanced Upload	d Download C	ertificate					
- Validity Perio	CA	Update	OPC	UA Server	MQTT Broker	Export		
			ОРС	UA Client	MQTT Client	Import		
Double click o	n Module Name or IP	Address to open the we	b interface of Modul	e.				
Select All	Module Name	Host Name	IP Address	MAC Address	Version	Response Time	Notes	
	UA-5231M	UA-Series-68c90be4d6cc	192.168.82.201:80	68:c9:0b:e4:d6:cc	1.5.2.1 Local Datalog	15ms		
	UA-5231M	UA-Series-f4e11e955a85	192.168.255.102:80	f4:e1:1e:95:5a:85	1.5.0.0/ 8.8.0/1.1.85	15ms		
	UA-5231	UA-Series-1442fca93039	192.168.101.2:80	14:42:fc:a9:30:39	1.4.6.32/ 8.5.0/1.1.85	15ms		
	BRK-2841M	BRK-2841M-8461	192.168.84.61:80	00:0d:e0:18:2b:01	1.1.0.0	94ms		
	BRK-2841M	ICPDAS-BRK-2841M-84	192.168.84.80:80	00:0d:e0:18:2b:13	1.1.0.0	172ms		
	BRK-2841M	ICPDAS-BRK-2841M-84	192.168.84.81:80	00:0d:e0:18:2b:11	1.1.0.0	172ms		
🕼 Updati	ng certificate,	please wait	192.168.255.60:80	00:0d:e0:18:2b:03	1.1.0.0	172ms		
	U-7526M	000de01820827000	192.168.82.202:80	00:0d:e0:b0:f0:00	13.0.0.0 / 16.10	172ms		

Figure 5-122 MQTT Certificates with BRK and UA I/O - Updating the MQTT Client Certificate(6)

When the update is successful, the word 'Update Successful' will appear in the [Notes] column of the selected module.

🙀 EZ-UAQ Utility							– 🗆 X
Language: English • Q Module Select Module •							
Basic A	dvanced Uploa	d Download C	Certificate				
∣ Validity Perio	odCA	Update —			Fi	le]
			OPC	UA Server	MQTT Broker	📔 Export	
Cuery 1	/ 🗖 Ne	ew 🛛 📥 HTT	rps				
			OPC	UA Client	MQTT Client	import	
Double click o	n Module Name or IP	Address to open the we	eb interface of Modu	le.			
Select All	Module Name	Host Name	IP Address	MAC Address	Version	Response Time	Notes
	UA-5231M	UA-Series-68c90be4d6cc	192.168.82.201:80	68:c9:0b:e4:d6:cc	1.5.2.1 Local Datalog	15ms	
	UA-5231M	UA-Series-f4e11e955a85	192.168.255.102:80	f4:e1:1e:95:5a:85	1.5.0.0/ 8.8.0/1.1.85	15ms	
	UA-5231	UA-Series-1442fca93039	192.168.101.2:80	14:42:fc:a9:30:39	1.4.6.32/ 8.5.0/1.1.85	15ms	
	BRK-2841M	BRK-2841M-8461	192.168.84.61:80	00:0d:e0:18:2b:01	1.1.0.0	94ms	
	BRK-2841M	ICPDAS-BRK-2841M-84	192.168.84.80:80	00:0d:e0:18:2b:13	1.1.0.0	172ms	
	BRK-2841M	ICPDAS-BRK-2841M-84	192.168.84.81:80	00:0d:e0:18:2b:11	1.1.0.0	172ms	
	BRK-2841M	ICPDAS-BRK-2841M	192.168.255.60:80	00:0d:e0:18:2b:03	1.1.0.0	172ms	
	U-7526M	000de01820827000	192.168.82.202:80	00:0d:e0:b0:f0:00	13.0.0.0 / 16.10	172ms	Update successful

Figure 5-123 MQTT Certificates with BRK and UA I/O - Updating the MQTT Client Certificate(7)

After completing the above steps, go to the UA I/O webpage, click on MQTT Settings > Certificates > check Enable SSL/TLS, and then click Save.

ICP DAS CO.	LTD.				
System Settings	Module Settings	OPC UA Settir	ngs MQT	T Settings	Advanced Settings
Connection Settings Client Settings	Content Settin	igs ssi/ti s	Enable		
Certificate					
			Save 🛟		

After enabling SSL/TLS and successfully saving the settings, the "Save" button will display success on the right, indicating that the configuration has been saved.

ICP DAS CO.	LTD.			
System Settings	Module Settings	OPC UA Setting	MQTT Settings	Advanced Settings
Connection Settings	Content Settir	ngs		
Client Settings		SSL/TLS	Enable	
Certificate		[Save Success	

Next, upload the trusted certificate. The process is as follows.

- 1. Click the **[Export]** function in the EZ-UAQ Utility and enter the password for the compressed file. Then, select the storage path. After exporting the MQTT certificate and CA certificate, first decompress the exported certificate file (the compressed file password will be required).
- 2. Certificate Import Webpage: Then, import the certificate via the UA I/O webpage. UA I/O Webpage: Please click on MQTT Settings > Certificates > Upload. Select the file: (Ca.crt).

Open the "EZ-UAQ Utility_Certificate_2xxx_xx_ folder, navigate to the CA folder, and then select the Ca.crt file to import it.

The "Upload" button showing success on the right (as shown in the figure) indicates that the CA certificate has been successfully imported.

ICP DAS CO.	LTD.			ICP DAS UA I/O	LTD.		
System Settings	Module Settings	OPC UA Settir	ngs MQTT Settings	System Settings	Module Settings	OPC UA Setting	s MQTT Settings
Connection Settings	Content Settin	ngs		Connection Settings	Content Settings		
Client Settings		SSL/TLS	Enable	Client Settings		SSL/TLS	Enable
Certificate	Save Success			Ceruncate	Save Success		
	Upload the file	e to the devic	e		Upload the file	e to the device	e
		Authentication	One-way Authentication			Authentication	One-way Authentication
	Tr	usted Certificate File : Ca.crt	Upload		т	rusted Certificate File : Ca.crt	Upload Success
	Remove the fi	le		-	Remove the f	ile	
	Tr	usted Certificate	Remove		Т	rusted Certificate	Remove

On the UA I/O webpage, go to MQTT Settings > Connection Settings > IP/Domain. Enter the IP address of the MQTT Broker and set the Port to 8883 (if using certificate-based connection, the original unencrypted connection Port 1883 must be changed to 8883). Then, click the "Test" button to perform a connection test.

 ✓ ③ 192.168.84.61.8000/LocalBroke ← → C ▲不安全 192.16 	× + 8.84.61: 000/LocalBrokerSetti	ICP UA I/O DAS ICP DAS CO.	LTD.			
BRK Series BOAS BOAS CO. LTD.	MQTT Br	oker IP	System Settings Connection Settings Client Settings	Module Settings	OPC UA Settings	MQTT Settings
System setting MQTT s	etting Database	e Advanced setting	Certificate		Port 88	83
Bridge	Node name brkz Port 188	3		Keepa	alive (Seconds) 60 onymous Login	Enable
Rule	Allow anonymous SSL port 888	13		т	est Connection Te	est
Websocket	5	and a			Sa	ave

The "Test" button showing success on the right indicates that the connection test using the certificate was successful.

System Settings	Module Settings	OPC UA Settings	MQTT Settings	Advanced Setting
Connection Settings	MQTT Broker	Connection Se	ttings	
Client Settings		IP / Domain 19	2.168.84.61	
Certificate		Port 88	83	
	Kee	palive (Seconds) 60		
	A	nonymous Login 🔽	Enable	
		Test Connection	est Success	

Using the UA Communication Server and UA I/O Module for MQTT Certificate



UA Procedure Flow: Select the UA module that requires a certificate update, then click the **[MQTT Broker]** button. A prompt will appear, as shown in Figure 5-125, to ensure the action was not accidental. Next, click "YES."

🥵 EZ-UAQ Utility	,					
🕀 Language	English - Q	Module Select Module	e	•		
Basic	Advanced Upload	d Download C	Certificate			
Validity Perio		Update —	OPC	UA Server	MQTT Broker	Export
			ОРС	UA Client	MQTT Client	📔 Import
Double click o	on Module Name or IP	Address to open the we	eb interface of Modu	le.		
Select All	Module Name	Host Name	IP Address	MAC Address	Version	Response Time
	UA-5231	UA-Series-1442fca93039	192.168.101.2:80	14:42:fc:a9:30:39	1.4.6.32/ 8.5.0/1.1.85	16ms
	UA-5231M	UA-Series-f4e11e955a85	192.168.255.102:80	f4:e1:1e:95:5a:85	1.5.0.0/ 8.8.0/1.1.85	110ms
	UA-5231M	UA-Series-68c90be4d6cc	192.168.82.201:80	68:c9:0b:e4:d6:cc	1.5.2.1 Local Datalog	110ms
	BRK-2841M	BRK-2841M-8461	192.168.84.61:80	00:0d:e0:18:2b:01	1.1.0.0	110ms
	BRK-2841M	ICPDAS-BRK-2841M-84	192.168.84.81:80	00:04:e0:18:2b:11	1.1.0.0	172ms
	BRK-2841M	ICPDAS-BRK-2841M	192.168.255.60:80	02.0d:e0:18:2b:03	1.1.0.0	172ms
	BRK-2841M	ICPDAS-BRK-2841M-84	192.168.84.80:80	00:0d:e0:18:2b:13	1.1.0.0	172ms
	U-7526M	000de01820827000	192.168.82.202:80	00:0d:e0:b0:f0:00	13.0.0.0 / 16.10	172ms

Figure 5-124 MQTT Certificates with UA and UA I/O/ Updating the MQTT Broker Certificate(1)



Figure 5-125 MQTT Certificates with UA and UA I/O - Updating the MQTT Broker Certificate(2)

If the following message appears, it indicates that the EZ-UAQ Utility has not generated a CA certificate. The user can choose whether to have the EZ-UAQ Utility generate a 5-year CA certificate. If this function is not used, the user can also use the [Add] function to generate a new CA certificate, or use the [Import] function to import third-party CA certificate and Key files as the basis for the MQTT certificate.



Figure 5-126 MQTT Certificates with UA and UA I/O - Updating the MQTT Broker Certificate(3)

Please enter the expiration days for the CA certificate in the 'Certificate Validity Date' window, and then click OK.

Please refer to <u>Appendix C</u> for certificate date input restrictions, which detail the limitations and recommendations for input.

🥵 Certificate va	🥵 Certificate validity date			×
🗹 Day	🗌 Month	🗆 Ye	ear	
2				
	OK			

Figure 5-127 MQTT Certificates with UA and UA I/O - Updating the MQTT Broker Certificate(4)

A Password window will pop up. Please enter the EZ-UAQ Utility password set in the module, then click OK. The interface will display 'Updating Certificate, Please Wait,' indicating that the update process has started.

🚳 Password	-	×
Password		

OK		

Figure 5-128 MQTT Certificates with UA and UA I/O - Updating the MQTT Broker Certificate(5)

👫 EZ-UAQ Utility							– 🗆 X	
Language:	English • Q	Module Select Module	9	•			About	
Basic A	Basic Advanced Upload Download Certificate							
Validity Perio	d — CA — —	Update —			- Ei	ile		
Ouen		м П нт	OPC	UA Server	MQTT Broker	Export		
- Query		9	ОРС	UA Client	MQTT Client	Import		
Double click o	n Module Name or IP	Address to open the we	b interface of Modu	le.				
Select All	Module Name	Host Name	IP Address	MAC Address	Version	Response Time	Notes	
	UA-5231	UA-Series-1442fca93039	192.168.101.2:80	14:42:fc:a9:30:39	1.4.6.32/ 8.5.0/1.1.85	16ms		
	UA-5231M	UA-Series-f4e11e955a85	192.168.255.102:80	f4:e1:1e:95:5a:85	1.5.0.0/ 8.8.0/1.1.85	110ms		
	UA-5231M	UA-Series-68c90be4d6cc	192.168.82.201:80	68:c9:0b:e4:d6:cc	1.5.2.1 Local Datalog	110ms		
	BRK-2841M	BRK-2841M-8461	192.168.84.61:80	00:0d:e0:18:2b:01	1.1.0.0	110ms		
	BRK-2841M	ICPDAS-BRK-2841M-84	192.168.84.81:80	00:0d:e0:18:2b:11	1.1.0.0	172ms		
	BRK-2841M	ICPDAS-BRK-2841M	192.168.255.60:80	00:0d:e0:18:2b:03	1.1.0.0	172ms		
🕒 Updati	ing certificate,	please wait -84	192.168.84.80:80	00:0d:e0:18:2b:13	1.1.0.0	172ms		
	U-7526M	000de01820827000	192.168.82.202:80	00:0d:e0:b0:f0:00	13.0.0.0 / 16.10	172ms		

Figure 5-129 MQTT Certificates with UA and UA I/O - Updating the MQTT Broker Certificate(6)

When the update is successful, the word 'Update Successful' will appear in the [Notes] column of the selected module.

👫 EZ-UAQ Utility							- 🗆 ×
🕀 Language:	English - Q	Module Select Module	2	•			Abou
Basic A	dvanced Upload	d Download C	Certificate				
_┌ Validity Perio	d CA	Update			Fi	ile	
			OPC	UA Server N	MQTT Broker	📔 Export	
Cuery			PS OPC	UA Client	MQTT Client	📔 Import	
Double click or	n Module Name or IP	Address to open the we	b interface of Modul	e.			
Select All	Module Name	Host Name	IP Address	MAC Address	Version	Response Time	Notes
	UA-5231	UA-Series-1442fca93039	192.168.101.2:80	14:42:fc:a9:30:39	1.4.6.32/ 8.5.0/1.1.85	16ms	
	UA-5231M	UA-Series-f4e11e955a85	192.168.255.102:80	f4:e1:1e:95:5a:85	1.5.0.0/ 8.8.0/1.1.85	110ms	
	UA-5231M	UA-Series-68c90be4d6cc	192.168.82.201:80	68:c9:0b:e4:d6:cc	1.5.2.1 Local Datalog	110ms	Update successful
	BRK-2841M	BRK-2841M-8461	192.168.84.61:80	00:0d:e0:18:2b:01	1.1.0.0	110ms	
	BRK-2841M	ICPDAS-BRK-2841M-84	192.168.84.81:80	00:0d:e0:18:2b:11	1.1.0.0	172ms	
	BRK-2841M	ICPDAS-BRK-2841M	192.168.255.60:80	00:0d:e0:18:2b:03	1.1.0.0	172ms	
	BRK-2841M	ICPDAS-BRK-2841M-84	192.168.84.80:80	00:0d:e0:18:2b:13	1.1.0.0	172ms	
	U-7526M	000de01820827000	192.168.82.202:80	00:0d:e0:b0:f0:00	13.0.0.0 / 16.10	172ms	

Figure 5-130 MQTT Certificates with UA and UA I/O - Updating the MQTT Broker Certificate(7)

UA I/O Procedure Flow: Select the UA I/O module that requires a certificate update, then click the **[MQTT Client]** button. A prompt will appear, as shown in Figure 5-132, to ensure the action was not accidental. Next, click "YES."

🙀 EZ-UAQ Utility						
🕀 Language	English • Q	Module Select Module	e	•		
Basic A	Advanced Upload	d Download C	Certificate			
- Validity Perio	v CA	Update	OPC	UA Server	IQTT Broker	Export
			ОРС	UA Client	MQTT Client	import
Double click o	on Module Name or IP	Address to open the we	eb interface of Modul	e.		
Select All	Module Name	Host Name	IP Address	MAC Address	Version	Response Time
	UA-5231M	UA-Series-68c90be4d6cc	192.168.82.201:80	68:c9:0b:e4:d6:cc	1.5.2.1 Local Datalog	16ms
	UA-5231M	UA-Series-f4e11e955a85	192.168.255.102:80	f4:e1:1e:95:5a:85	1.5.0.0/ 8.8.0/1.1.85	110ms
	UA-5231	UA-Series-1442fca93039	192.168.101.2:80	14:42:fc:a9:30:39	1.4.6.32/ 8.5.0/1.1.85	110ms
	BRK-2841M	BRK-2841M-8461	192.168.84.61:80	00:0d:e0:18:2b/01	1.1.0.0	110ms
	BRK-2841M	ICPDAS-BRK-2841M-84	192.168.84.81:80	00:0d:e0:18:7b:11	1.1.0.0	172ms
	BRK-2841M	ICPDAS-BRK-2841M	192.168.255.60:80	00:0d:e0:15:2b:03	1.1.0.0	172ms
	BRK-2841M	ICPDAS-BRK-2841M-84	192.168.84.80:80	00:0d:e0.18:2b:13	1.1.0.0	172ms
	U-7560M	000de01821027000	192.168.255.1:80	00:0d/e0:18:21:02	15.0.0.0 / 16.10	172ms
	U-7526M	000de01820827000	192.168.82.202:80	00;/ d:e0:b0:f0:00	13.0.0.0 / 16.10	266ms

Figure 5-131 MQTT Certificates with UA and UA I/O/Updating the MQTT Client Certificate(1)



Figure 5-132 MQTT Certificates with UA and UA I/O - Updating the MQTT Client Certificate(2)

If the following message appears, it indicates that the EZ-UAQ Utility has not generated a CA certificate. The user can choose whether to have the EZ-UAQ Utility generate a 5-year CA certificate. If this function is not used, the user can also use the [Add] function to generate a new CA certificate, or use the [Import] function to import third-party CA certificate and Key files as the basis for the MQTT certificate.



Figure 5-133 MQTT Certificates with UA and UA I/O - Updating the MQTT Client Certificate(3)

Please enter the expiration days for the CA certificate in the 'Certificate Validity Date' window, and then click OK.

Please refer to <u>Appendix C</u> for certificate date input restrictions, which detail the limitations and recommendations for input.

🦚 Certificate v	- 0	×	
🗹 Day	🗌 Month	🗌 Үеаг	
2			
	ОК		

Figure 5-134 MQTT Certificates with UA and UA I/O - Updating the MQTT Client Certificate(4)

A Password window will pop up. Please enter the EZ-UAQ Utility password set in the module, then click OK. The interface will display 'Updating Certificate, Please Wait,' indicating that the update process has started.

👫 Password	_	×
Password		

OK		

Figure 5-135 MQTT Certificates with UA and UA I/O - Updating the MQTT Client Certificate(5)

😽 EZ-UA	Q Utility							– 🗆 ×
🕀 Lan	guage:	English - Q	Module Select Module	9	•			About
Basic	A	dvanced Uploa	d Download C	Certificate				
- Validit	Validity Period CA Update File							
				OPC	UA Server	MQTT Broker	Export	
	Query	Ne Ne	ew HT	TPS			~	
				OPC	UA Client	MQ11 Client	Import	
Double	click or	n Module Name or IP	Address to open the we	b interface of Modul	e.			
🔲 Selec	t All	Module Name	Host Name	IP Address	MAC Address	Version	Response Time	Notes
]	UA-5231M	UA-Series-68c90be4d6cc	192.168.82.201:80	68:c9:0b:e4:d6:cc	1.5.2.1 Local Datalog	16ms	
]	UA-5231M	UA-Series-f4e11e955a85	192.168.255.102:80	f4:e1:1e:95:5a:85	1.5.0.0/ 8.8.0/1.1.85	110ms	
		UA-5231	UA-Series-1442fca93039	192.168.101.2:80	14:42:fc:a9:30:39	1.4.6.32/ 8.5.0/1.1.85	110ms	
		BRK-2841M	BRK-2841M-8461	192.168.84.61:80	00:0d:e0:18:2b:01	1.1.0.0	110ms	
]	BRK-2841M	ICPDAS-BRK-2841M-84	192.168.84.81:80	00:0d:e0:18:2b:11	1.1.0.0	172ms	
]	BRK-2841M	ICPDAS-BRK-2841M	192.168.255.60:80	00:0d:e0:18:2b:03	1.1.0.0	172ms	
N 🖓	odati	ng certificate,	please wait -84	192.168.84.80:80	00:0d:e0:18:2b:13	1.1.0.0	172ms	
]	U-7560M	000de01821027000	192.168.255.1:80	00:0d:e0:18:21:02	15.0.0.0 / 16.10	172ms	
	2	U-7526M	000de01820827000	192.168.82.202:80	00:0d:e0:b0:f0:00	13.0.0.0 / 16.10	266ms	

Figure 5-136 MQTT Certificates with UA and UA I/O - Updating the MQTT Client Certificate(6)

When the update is successful, the word 'Update Successful' will appear in the [Notes] column of the selected module.

👫 EZ-UAQ Utility	,						>	×
Language: English • Q Module Select Module •							Abo	out
Basic	Advanced Uploa	ad Download C	Certificate					
- Validity Peri	Validity Period CA Update File							
👬 Quer	y 🛛 🔂 N	lew 🛛 🔒 HT	TPS	e on server		Export		
			OF	PC UA Client	MQTT Client	import		
Double click o	on Module Name or I	P Address to open the we	eb interface of Mod	ule.			-	
Select All	Module Name	Host Name	IP Address	MAC Address	Version	Response Time	Notes	
	UA-5231M	UA-Series-68c90be4d6cc	192.168.82.201:80	68:c9:0b:e4:d6:cc	1.5.2.1 Local Datalog	16ms		
	UA-5231M	UA-Series-f4e11e955a85	192.168.255.102:80	f4:e1:1e:95:5a:85	1.5.0.0/ 8.8.0/1.1.85	110ms		
	UA-5231	UA-Series-1442fca93039	192.168.101.2:80	14:42:fc:a9:30:39	1.4.6.32/ 8.5.0/1.1.85	110ms		
	BRK-2841M	BRK-2841M-8461	192.168.84.61:80	00:0d:e0:18:2b:01	. 1.1.0.0	110ms		
	BRK-2841M	ICPDAS-BRK-2841M-84	192.168.84.81:80	00:0d:e0:18:2b:11	. 1.1.0.0	172ms		
	BRK-2841M	ICPDAS-BRK-2841M	192.168.255.60:80	00:0d:e0:18:2b:03	1.1.0.0	172ms		
	BRK-2841M	ICPDAS-BRK-2841M-84	192.168.84.80:80	00:0d:e0:18:2b:13	1.1.0.0	172ms		
	U-7560M	000de01821027000	192.168.255.1:80	00:0d:e0:18:21:02	15.0.0.0 / 16.10	172ms		
	U-7526M	000de01820827000	192.168.82.202:80	00:0d:e0:b0:f0:00	13.0.0.0 / 16.10	266ms	Update successfu	ul

Figure 5-137 MQTT Certificates with UA and UA I/O - Updating the MQTT Client Certificate(7)

✤ For the UA series, updating certificates through the EZ-UAQ Utility does not automatically enable the MQTT Broker certificate function. To enable this feature, please configure it on the UA or UA I/O webpage.

UA Web Page Settings: Select Function Area (Master) > Modbus TCP⇔ MQTT > MQTT Broker Settings > Local Broker > Check Enable SSL/TSL > Save. A "success" message will appear to the right of the "Save" button, indicating that the settings have been successfully saved.

ICP DAS CO. LTD.	0 Function Wizard	(Master) Modbus TCP ⇔ MQTT Usage: CPU 13% Memory 29.43%	ICP DAS CO., LTD.	0 ion Server	(Master) Modbus TCP ↔ MQTT Usage: CPU 15% Memory 2
Module Setting MQT Run the project System Setting Module	T Certificate MQTT Broker Si Setting IoT Platform Setting	etting > Enable Converting Module > Convert Setting Advanced Setting	Module Setting > MQT Run the project System Setting Module	T Certificate > MQTT Broker S	etting > Enable Converting Module
IoT Platform Setting Local Bro	ker		IoT Platform Setting Local Bro	ker	
Local Broker Remote Broker	Port	1883	Local Broker Remote Broker	Port	1883
MQTT Group Connection Microsoft Azure Platform	Anonymous Login	Z Enabled	MQTT Group Connection	Anonymous Login	Enabled
OPC UA Connection	SSL/TLS	Enabled	OPC UA Connection	WebSocket SSL/TLS	 Enabled Zenabled
Local Osiver	Port	8883	Local Server	Port	8883
	Certificate	Select File icpdasmqttbroker.crt		Certificate	Select File icpdasmqttbroker.crt
	Private Key	Select File icpdasmqttbroker.key		Private Key	Select File icpdasmqttbroker.key

After completing the above steps, go to the UA I/O webpage, click on MQTT Settings >

ICP DAS CO.	LTD.				
System Settings	Module Settings	OPC UA Settings	MQTT Settings	Advanced Settings	
Connection Settings	Content Settir	ngs			
Client Settings	SSL/TLS Znable				
Certificate					
		Sav	e		

Certificates > check Enable SSL/TLS, and then click Save.

After enabling SSL/TLS and successfully saving the settings, the "Save" button will display success on the right, indicating that the configuration has been saved.

ICP DAS CO.	LTD.			
System Settings	Module Settings	OPC UA Settings	MQTT Settings	Advanced Settings
Connection Settings	Content Settir	ngs		
Client Settings		SSL/TLS 🗾 E	nable	
Certificate		Sav	ve Success	

Next, upload the trusted certificate. The process is as follows.

- Click the Export function in EZ-UAQ Utility, enter the password for the compressed file, and then select the storage path. After exporting the MQTT certificate and CA certificate, first extract the exported certificate file (you will need to enter the password for the compressed file).
- 2. Import File Certificate: Then import the certificate through the UA I/O web page.
 UA Web Page: First, go to the Function Area, select (Master) Modbus TCP ⇔ MQTT, then click MQTT Certificate > Select File > Upload. Select File: (Ca.crt)
 UA I/O Web Page: Click MQTT Settings > Certificate > Upload. Select File: (Ca.crt)

Open the "EZ-UAQ Utility_Certificate_2xxx_xx" folder, go to the CA folder, then select the Ca.crt file and import it.

A "success" message appears to the right of the Upload button (as shown in the image), indicating that the CA certificate has been successfully imported.

192.168.82.201/Main.htm	ni × +	192.168.82.201/Main	.html × +			
→ C ▲ 不安全 1	92.168.82.201/Main.html	e → C (▲不安全) 192.168.82.201/Main.html @ 쀁 Q				
CICP UA-2200/520 IIoT Communica ICP DAS CO. LTD.	00 tion Server (Master) Modbus TCP ↔ MQTT User: CPU 16% Memory 13.8%	ICP DAS CO. LTD.	5200 Alcation Server	X (Master) Modbus TCP ⇔ MQTT User: CPU 19% Memory 1333% S0 Cad		
Module Setting > MQT Run the project	T Certificate > MQTT Broker Setting > Enable Converting Module >	Sav Module Setting > ! Run the project	AQTT Certificate > MQTT Broker S	etting 📏 Enable Converting Module 📏 Save Project 📏		
System Setting Modul	e Setting IoT Platform Setting Convert Setting Advanced Setting	L System Setting Me	ting	Convert Setting Advanced Setting Logger Setting		
File Setting MQTT Certificate Project File OPC UA Certificate	MQTT Client Remove the File	File Setting MQTT Certifi Project File OPC UA Certificate	MQTT Client Remove the File			
MQTT Certificate Log File Download Firmware Update	Trusted Certificate Remove Certificate Remove	MQTT Certificate Log File Download Firmware Update	Trusted Certificate Certificate	Remove		
Firmware Opoate	Private Key Remove Upload the file to the controller Trusted Certificate Select File Upload		Private Key Remove Upload the file to the controller Trusted Certificate Select File Upload			
	Certificate Select File Uploat Private Key Select File Uploat		Certificate Private Key	Select File Upload Success Select File Upload		
UA I/O ICP DAS CO., L' System Settings	To. Module Settings OPC UA Settings MQTT Settings	UA I/O LCP DAS CO., L System Settings	το. Module Settings OPC UA S	Settings MQTT Settings Advanced Settings		
Connection Settings Client Settings Certificate	Content Settings SSL/TLS Cable	Connection Settings Client Settings Certificate	Content Settings	LS Z Enable		
	Save	•	Lipland the file to the d	Save		
	Authentication One-way Authentication		Authenticat	ion One-way Authentication V		
	File : Ca.crt		File : Ca.c	Upload Success		

In the **UA I/O web page**, go to MQTT Settings > Connection Settings > IP/Domain, enter the MQTT Broker's IP, and set the port to 8883 (if using certificate-based connection, the original unencrypted connection port 1883 must be changed to 8883). Then, click the Test button to perform a connection test.

 ✓ S 192.168.82.201/Main.htm ← → C ▲不安全 11 	nl × + 92.168.82.201, Main.html		ICP UA I/O	LTD.			
	МОТ	T Broker 的 IP	System Settings	Module Settings	OPC UA Settings	MQTT Settings	Advanced Settings
ICP DAS CO. LTD.	00 Lion Server	(Master) Modbus I CP ↔ MQ1T Usge: CPU 14% Menery 12.92%	Connection Settings	MQTT Broker	Connection Sett	ings	-
Module Setting ≽ MQT	Module Setting > MQTT Certificate > MQTT Broker Setting > Enable Converting Module >				IP / Domain 192	168.84.61	
Run the project	Run the project		Certificate		Port 888	3	
I/O Status File Setting	e Setting	Convert Setting Advanced Setting		Keep	oalive (Seconds) 60		
IoT Platform Setting Local Bro	Local Broker Setting			Ar	nonymous Login 🗹 E	nable	
Remote Broker	Port	1883			Test Connection Tes		
MQTT Group Connection	Anonymous Login	Z Enabled					
Microsoft Azure Platform	WebSocket	Enabled				_	
OPC UA Connection	SSL/TLS	Enabled			Sav	re	

A "success" message appears to the right of the Test button, indicating that the connection test using the certificate was successful.

System Settings	Module Settings	OPC UA Settings	MQTT Settings	Advanced Setting	
Connection Settings	MQTT Broker	Connection S	ettings		
Client Settings		IP / Domain	92.168.84.61		
Certificate		Port	8883		
	Kee	palive (Seconds)	60		
	A	nonymous Login 🛛	Enable		
		Test Connection	Test		

Check Validity Period

The [Query] function is used to check the validity period of the certificate used by the module. Expiration indicates that the certificate has expired. If the certificate validity is more than 30 days, it will display >30. Not enabled means the certificate has not been activated.

Check the box for the module certificate whose validity period needs to be queried, then click the 【Query】 button. The interface will display "Checking certificate activation and expiration dates," indicating that the check process has begun. Next, a "Certificate Information" window will pop up (Figure 5-140), where you can view the module certificate's validity period.

		<i>,</i> , <i>,</i>					
👯 EZ-UAQ Utilit	У						- 🗆 ×
) Languag	e: English •	Q Module Select Modu	le	•			About
Basic	Advanced Up	bload Download	Certificate				
-Validity Pe	riod — CA —	Update –		1	Fil	e	1
Ê Oue	erv 📃	New H		OPC UA Server	MQTT Broker	Export	
				DPC UA Client	MQTT Client	📔 Import	
Double click	on Module Name o	or IP Address to open the v	veb interface of Mo	odule.			
Select All	Module Name	Host Name	IP Address	MAC Address	Version	Response Time	Notes
	UA-2841M	UA-2841M-000de01820.	. 192.168.1.103:80	00:0d:e0:18:20:0d	1.4.2.1/ 7.5.0/1.1.81	16ms	
	UA-5231(M)	UA-Series-f4e11e954e4c	192.168.85.216:80	f4:e1:1e:95:4e:4c	1.5.2.2 Local Datalog	16ms	
	UA-5231	UA-Series-1442fca93039	192.168.101.2:80	14:42:fc:a9:30:39	1.4.6.32/ 8.5.0/1.1.85	94ms	
	UA-7231M	UA-Series-ac1f0fbead4a	192.168.85.230:80	ac:1f:0f:be:ad:4a	1.4.6.26/ 8.5.0/1.1.85	110ms	
\checkmark	UA-5231M	UA-Series-68c90be4d6co	192.168.82.201:80	68:c9:0b:e4:d6:cc	1.5.0.2/ 8.8.0/1.1.85	172ms	
	BRK-2841M	BRK-2841M-8461	192.168.84.61:80	00:0d:e0:18:2b:01	1.1.0.0	188ms	
	BRK-2841M	ICPDAS-BRK-2841M-84	192.168.84.80:80	00:0d:e0:18:2b:13	1.1.0.0	266ms	
\checkmark	U-7526M	000de01820827000	192.168.82.202:80	00:0d:e0:b0:f0:00	13.0.0.0 / 16.10	266ms	
🖁 EZ-UAQ Utilit	y Per English	Module Select Mod					– 🗆 X
tenguag	Je. Liigiisii	C Module Select Mod					Abou
Basic	Advanced Up	bload Download	Certificate				
Validity Pe	riod — CA —	- Update -			F	ile	
Ê Oue	env	New		OPC UA Server	MQTT Broker	Export	
				OPC UA Client	MQTT Client	1 Import	
ouble click	on Module Name o	or IP Address to open the	web interface of M	odule.			
Select All	Module Name	Host Name	IP Address	MAC Address	Version	Response Time	Notes
	UA-2841M	UA-2841M-000de01820	192.168.1.103:80	00:0d:e0:18:20:0d	1.4.2.1/ 7.5.0/1.1.81	16ms	
	UA-5231(M)	UA-Series-f4e11e954e4	192.168.85.216:80	f4:e1:1e:95:4e:4c	1.5.2.2 Local Datalog	. 16ms	
	UA-5231	UA-Series-1442fca93039	9 192.168.101.2:80	14:42:fc:a9:30:39	1.4.6.32/ 8.5.0/1.1.85	94ms	
	UA-7231M	UA-Series-ac1f0fbead4a	192.168.85.230:80	ac:1f:0f:be:ad:4a	1.4.6.26/ 8.5.0/1.1.85	110ms	
	UA-5231M	UA-Series-68c90be4d6c	c 192.168.82.201:80	68:c9:0b:e4:d6:cc	1.5.0.2/ 8.8.0/1.1.85	172ms	
	BRK-2841M	BRK-2841M-8461	192.168.84.61:80	00:0d:e0:18:2b:01	1 1.1.0.0	188ms	
Chec	k the certifica	ate activation and	expiration of	ate 0:0d:e0:18:2b:13	3 1100	266ms	
o Checi	k the certifica	are activation and	capitation c	ULC 0.00.60.10.20.13	1.1.0.0	2001113	

Figure 5-139 Check the Validity Period of the Module Certificate(2)
Certificate Inform	Certificate Information — — — ×								
Module Name	IP Address	Https	OPC UA Server	OPC UA Client	MQTT Broker	MQTT Client			
UA-5231M	192.168.82.201	Expiration	2day		2day,CA:>30day	Not enabled,CA:>30day			
U-7526M	192.168.82.202	Expiration	2day	2day		Not enabled,CA:>30day			
	Export 1								
	Update Expired Certificate 2								

Figure 5-140 Check the Validity Period of the Module Certificate(3)

"Certificate Information" window description:

1. Export: Both certificate information and basic information are exported together. The exported Excel data is shown in the diagram below.

6	- ^ج	~ 🔓 •					l Certificate	Information	2025_03_1	0_16_39.xls>							
	ile	Home	Insert	Page La	yout	Formulas	Data	Revie	w Vie	ew He	lp 🖓	Tell m	e what yo	u want to	do		\Box
A.	1	•	× ✓	<i>f</i> ≈ Mo	odule Nam	le											*
	А	в	с	D	E	F	G	н	1	L	к	L	М	N	0	P	
1	Module N	Host Nam	IP Addres	Mac Addr	Version	Response	Https	OPC UA Se	OPC UA C	MQTT Bor	MQTT Clie	Notes					
2	UA-2841N	UA-2841N	192.168.1.	00:0d:e0:1	1.4.2.1/7.	16ms											
3	UA-5231(UA-Series	192.168.85	f4:e1:1e:9	1.5.2.2 Lo	16ms											
4	UA-5231	UA-Series	192.168.10	14:42:fc:a	1.4.6.32/8	94ms											
5	UA-7231N	UA-Series	192.168.85	ac:1f:0f:be	1.4.6.26/8	110ms											
6	UA-5231N	UA-Series	192.168.82	68:c9:0b:e	1.5.0.2/ 8.	172ms	Days:0,Qu	Days:2,Qu		Days:2,Qu	Not enab						
7	BRK-2841	BRK-2841	192.168.84	00:0d:e0:1	1.1.0.0	188ms											
8	BRK-2841	ICPDAS-B	192.168.84	00:0d:e0:1	1.1.0.0	266ms											
9	U-7526M	000de018	192.168.82	00:0d:e0:b	13.0.0.0 /	266ms	Days:0,Qu	Days:2,Qu	Days:2,Q		Not enab						
10																	
	< •	Basic /	And Certifi	cate	+					:							Þ
Re	ady 🕀 Ac	essibility: Goo	d to go												+	+ 1/	00%

2. Update Expired Certificates: Update all module certificates with a validity period of <= 1 day or marked as Expiration.



If the following message appears, it indicates that the EZ-UAQ Utility has not generated a CA certificate. The user can choose whether to have the EZ-UAQ Utility generate a 5-year CA certificate. If this function is not used, the user can also use the [Add] function to generate a new CA certificate, or use the [Import] function to import third-party CA certificate and Key files as the basis for the MQTT certificate.



Please enter the expiration days for the CA certificate in the 'Certificate Validity Date' window, and then click OK.

Please refer to <u>Appendix C</u> for certificate date input restrictions, which detail the limitations and recommendations for input.

👯 Certificate va	- 0	×	
🗹 Day	🗌 Month	🗌 Үеаг	
2			
	ОК		

Enter the password for the module settings in EZ-UAQ Utility, then click OK. The interface will display "Updating certificate, please wait", indicating that the update process has begun.

👫 Password	-	×
Password		

OK		

🙀 EZ-UAQ Utility						_	
Language:	English - Q	Module Select Module	e	•			About
Basic A	dvanced Upload	d Download C	Certificate				
- Validity Perio	d — CA — CA	Update			Fil	e	
â Ouen			OPC	UA Server	MQTT Broker	Export	
			OPC	UA Client	MQTT Client	Import	
Double click or	n Module Name or IP	Address to open the we	eb interface of Modul	e.			
Select All	Module Name	Host Name	IP Address	MAC Address	Version	Response Time	Notes
	UA-2841M	UA-2841M-000de01820	192.168.1.103:80	00:0d:e0:18:20:0d	1.4.2.1/ 7.5.0/1.1.81	16ms	
	UA-5231(M)	UA-Series-f4e11e954e4c	192.168.85.216:80	f4:e1:1e:95:4e:4c	1.5.2.2 Local Datalog	16ms	
	UA-5231	UA-Series-1442fca93039	192.168.101.2:80	14:42:fc:a9:30:39	1.4.6.32/ 8.5.0/1.1.85	94ms	
	UA-7231M	UA-Series-ac1f0fbead4a	192.168.85.230:80	ac:1f:0f:be:ad:4a	1.4.6.26/ 8.5.0/1.1.85	110ms	
	UA-5231M	UA-Series-68c90be4d6cc	192.168.82.201:80	68:c9:0b:e4:d6:cc	1.5.0.2/ 8.8.0/1.1.85	172ms	
	BRK-2841M	BRK-2841M-8461	192.168.84.61:80	00:0d:e0:18:2b:01	1.1.0.0	188ms	
🚯 Updati	ng certificate,	please wait -84	192.168.84.80:80	00:0d:e0:18:2b:13	1.1.0.0	266ms	
	U-7526M	000de01820827000	192,168,82,202:80	00:0d:e0:b0:f0:00	13.0.0.0 / 16.10	266ms	

When the update is successful, the word 'Update Successful' will appear in the [Notes] column of the selected module.

🙀 EZ-UAQ Utility								- 🗆 X	
Hanguage:	English - Q	Module Select Modul	e	•				About	
Basic A	Basic Advanced Upload Download Certificate								
_⊢ Validity Perio	d CA	Update —				F	ile ———		
Cuer			TDC	OPC UA Server	ΜQTT	Broker	Export		
Cuery				OPC UA Client	ΜQTT	Client	📔 Import	j	
Double click or	n Module Name or IP	Address to open the	EZ-UAQ Utility		×				
Select All	Module Name	Host Name				on	Response Time	Notes	
	UA-2841M	UA-2841M-000de0182				l/ 7.5.0/1.1.81	16ms		
	UA-5231(M)	UA-Series-f4e11e954e4	UA-523	IM:Update successful	ul: 	2 Local Datalog	. 16ms		
	UA-5231	UA-Series-1442fca9303	1,0-7526	ini:opdate successiu	1. I	32/ 8.5.0/1.1.85	94ms		
	UA-7231M	UA-Series-ac1f0fbead4				26/ 8.5.0/1.1.85	110ms		
	UA-5231M	UA-Series-68c90be4d6		ОК		2/ 8.8.0/1.1.85	172ms		
	BRK-2841M	BRK-2841M-8461)	188ms		
	BRK-2841M	ICPDAS-BRK-2841M-84	192.168.84.80:80	00:0d:e0:18:2b:1	3 1.1.0.0)	266ms		
	U-7526M	000de01820827000	192.168.82.202:8	0 00:0d:e0:b0:f0:00	0 13.0.0	.0/16.10	266ms		

After completing the above steps, click the **[Query]** button again. You will see that all expired certificates have been successfully updated.

🙀 Certificate Information – 🗆 X									
Module Name	IP Address	Https	OPC UA Server	OPC UA Client	MQTT Broker	MQTT Client			
UA-5231M	192.168.82.201	2day	2day		2day,CA:>30day	Not enabled,CA:>30day			
U-7526M	192.168.82.202	2day	2day	2day		Not enabled,CA:>30day			
Export									
	Update Expired Certificate								

Export Files

[Export] Function: This function exports certificates generated by EZ-UAQ Utility into a zip file. The exported zip file will require the user to input a password. If EZ-UAQ Utility has not generated any certificates, a message will appear. The following explanation assumes that certificates have already been generated using EZ-UAQ Utility.

Step 1: Click the **[Export]** button, and a password window will pop up.

🙀 EZ-UAQ Utility						-	- 🗆 🗙
🕀 Language:	English - Q	Module Select Module	e	•			About
Basic A	dvanced Upload	Download	Certificate				
⊢Validity Perio	d CA	Update —			——————————————————————————————————————	ile	
Cuen		W HT	OPC	UA Server	MQTT Broker	Export	
			ОРС	UA Client	MQTT Client	🗍 Import	
Double click o	n Module Name or IP	Address to open the we	b interface of Modu	le.			
Select All	Module Name	Host Name	IP Address	MAC Address	Version	Response Time	Notes
	UA-2841M	UA-2841M-000de01820	192.168.1.103:80	00:0d:e0:18:20:0d	1.4.2.1/ 7.5.0/1.1.81	32ms	
	UA-7231M	UA-Series-ac1f0fbead4a	192.168.85.230:80	ac:1f:0f:be:ad:4a	1.4.6.26/ 8.5.0/1.1.85	63ms	
	UA-5231	UA-Series-1442fca93039	192.168.101.2:80	14:42:fc:a9:30:39	1.4.6.32/ 8.5.0/1.1.85	63ms	
	UA-5231(M)	UA-Series-f4e11e954e4c	192.168.85.216:80	f4:e1:1e:95:4e:4c	1.5.2.2 Local Datalog	110ms	
						470	
	UA-5231M	UA-Series-68c90be4d6cc	192.168.82.201:80	68:c9:0b:e4:d6:cc	1.5.0.2/ 8.8.0/1.1.85	1/2ms	
	UA-5231M BRK-2841M	UA-Series-68c90be4d6cc BRK-2841M-8461	192.168.82.201:80 192.168.84.61:80	68:c9:0b:e4:d6:cc 00:0d:e0:18:2b:01	1.5.0.2/ 8.8.0/1.1.85	172ms 172ms	

Figure 5-141 Export Files (1)

Step 2: In the password window, enter the password for the compressed file (a minimum of 3 characters is required). Then, select the storage path. A success message will appear indicating that the file has been saved. Click OK to proceed.

Reassword	_		\times
Password (At le	ast 3 cha	aracter	s)
OK			

Figure 5-142 Export Files (2)

Select Folder						×
$\leftarrow \rightarrow \cdot \uparrow$	🚬 > This PC > Desktop		✓ [™] Searce	h Desktop		٩
Organize 🔻	New folder					?
📃 De ^	Name	Date	Туре	Size	Tags	^
🔮 Do	📙 EZ-UAQ Utility 圖檔	2024/11/26下午 04:57	File folder			- 1
🕹 Do		2025/2/18 下午 03:38	File folder			
b Mu		2025/3/6下午 05:35	File folder			
Pic	EZ-UAQ-Utility	2023/3/29 下午 12:04	File folder			~
	<					>
	Folder: Desktop					
	L		Selec	t Folder	Cancel	

Figure 5-143 Export Files (3)

👫 EZ-UAG) Utility	×
	Archived successfully	
	ОК	

Figure 5-144 Export Files (4)

Step 3: Next, a message will pop up asking, "Do you want to delete the certificates in the EZ-UAQ Utility directory?" Please select YES.



Figure 5-145 Export Files (5)

When the user selects "YES", the certificates generated by EZ-UAQ Utility will be deleted. After deletion, the user must manually save the certificates. On the other hand, selecting "NO" will retain the certificates generated by EZ-UAQ Utility.

🙀 EZ-UAQ Utility	\times
Please keep the certificate by yourself	
ОК	

Step 4: The following diagram shows the exported file and its file name.

	Exported File Name: EZ-UAQ Utility_Certificate_Year_Month_Day.zip
EZ-UAQ ility Centifi ate 2025_03 _11.zip	

> Import Files

U

[Import] function: Users are allowed to import their own CA certificates into EZ-UAQ Utility to generate MQTT certificates. At the same time, they can also import certificates exported from EZ-UAQ Utility.

🙀 EZ-UAQ Utility										- 0	×
🕀 Language:	English - C	A Module Select Me	odule								About
Basic A	dvanced Uploa	ad Download	Certificate								
□ Validity Perio	d CA	Updat	e ——	_				– File –		ר	
				OPC L	JA Server	MQ	TT Broker		Export		
Query			HTTPS	OPC I	JA Client	M	QTT Client		Import		
Double click o	n Module Name or I	P Address to open th	e web interface o	f Module							
Select All	Module Name	Host Name	IP Address		MAC Address	\	/ersion	Res	sponse Time	Notes	
	UA-2841M	UA-2841M-000de018	20 192.168.1.103:	80 (00:0d:e0:18:20:00	d 1	.4.2.1/ 7.5.0/1.1.81	32n	ns		
	UA-7231M	UA-Series-ac1f0fbea	d4a 192.168.85.230):80	ac:1f:0f:be:ad:4a	1	.4.6.26/ 8.5.0/1.1.8	5 63n	ns		
	UA-5231	UA-Series-1442fca93	039 192.168.101.2:	80 :	14:42:fc:a9:30:39	1	.4.6.32/ 8.5.0/1.1.8	5 63n	ns		

Figure 5-146 Import Files(1)





Figure 5-147 Import Files(2)

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
	UA-5231	UA-Series-a0f6fd48918f	192.168.1.63:80	a0:f6:fd:48:91:8f	1.4.6.0/ 7.8.0/1.1.85	15ms	
	UA-5231	UA-Series-1442fca93039	192.168.101.2:80	14:42:fc:a9:30:39	1.4.2.0/ 6.6.0/1.1.81	47ms	
	UA-5231(M)	UA-Series-68c90be4d6cc	192.168.1.201:80	68:c9:0b:e4:d6:cc	1.4.6.0/ 7.8.0/1.1.85	47ms	
	UA-5231(M)	UA-Series-40bd32c78696	192.168.85.30:80	40:bd:32:c7:86:96	1.4.6.5/ 7.8.0/1.1.85	47ms	
	UA-5231M-4GE	UA-Series-684749ec41d9	192.168.85.212:80	68:47:49:ec:41:d9	1.4.6.5/ 7.8.0/1.1.85	47ms	

Figure 5-148 Display Area Information

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.

Double click or	n Module Name or IP	Address to open the we	b interface of Modul	e.			
Select All	Module Name	Host Name	IP Address	MAC Address	Version	Response Time	Notes
	UA-5231	UA-Series-a0f6fd48918f	192.168.1.63:80	a0:f6:fd:48:91:8f	1.4.6.0/ 7.8.0/1.1.85	15ms	
	UA-5231	UA-Series-1442fca93039	192.168.101.2:80	14:42:fc:a9:30:39	1.4.2.0/ 6.6.0/1.1.81	47ms	
	UA-5231(M)	UA-Series-68c90be4d6cc	192.168.1.201:80	68:c9:0b:e4:d6:cc	1.4.6.0/ 7.8.0/1.1.8	CODV	
	UA-5231(M)	UA-Series-40bd32c78696	192.168.85.30:80	40:bd:32:c7:86:96	1.4.6.5/ 7.8.0/1.1.8	hide	
	UA-5231M-4GE	UA-Series-684749ec41d9	192.168.85.212:80	68:47:49:ec:41:d9	1.4.6.5/ 7.8.0/1.1.8	unhide all	

Figure 5-149 Hidden Fields Function

Double click o	n Module Name or IP	Address to open the we	b interface of Module	e.		
Select All	Module Name	Host Name	IP Address	MAC Address	Response Time	Notes
	UA-5231	UA-Series-a0f6fd48918f	192.168.1.63:80	a0:f6:fd:48:91:8f	15ms	
	UA-5231	UA-Series-1442fca93039	192.168.101.2:80	14:42:fc:a9:30:39	47ms	
	UA-5231(M)	UA-Series-68c90be4d6cc	192.168.1.201:80	68:c9:0b:e4:d6:cc	47ms	
	UA-5231(M)	UA-Series-40bd32c78696	192.168.85.30:80	40:bd:32:c7:86:96	47ms	
	UA-5231M-4GE	UA-Series-684749ec41d9	192.168.85.212:80	68:47:49:ec:41:d9	47ms	

Figure 5-150 Hide Version Field

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.

Double click o	n Module Name or IP	Address to open the we	eb interface of Modul	le.				
Select All	Module Name	Host Name	IP Address	MAC Address	Response Time	Notes		
	UA-5231	UA-Series-a0f6fd48918f	192.168.1.63:80	a0:f6:fd:48:91:8f	15ms			
	UA-5231	UA-Series-1442fca93039	192.168.101.2:80	14:42:fc:a9:30:39	47ms			
	UA-5231(M)	UA-Series-68c90be4d6cc	192.168.1.201:80	68:c9:0b:e4:d6:cc	47ms		CODV	
	UA-5231(M)	UA-Series-40bd32c78696	192.168.85.30:80	40:bd:32:c7:86:96	47ms		hide	
	UA-5231M-4GE	UA-Series-684749ec41d9	192.168.85.212:80	68:47:49:ec:41:d9	47ms		unhide all	

Figure 5-151 Display Fields Function

Double click or	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
	UA-5231	UA-Series-a0f6fd48918f	192.168.1.63:80	a0:f6:fd:48:91:8f	1.4.6.0/ 7.8.0/1.1.85	15ms	
	UA-5231	UA-Series-1442fca93039	192.168.101.2:80	14:42:fc:a9:30:39	1.4.2.0/ 6.6.0/1.1.81	47ms	
	UA-5231(M)	UA-Series-68c90be4d6cc	192.168.1.201:80	68:c9:0b:e4:d6:cc	1.4.6.0/ 7.8.0/1.1.85	47ms	
	UA-5231(M)	UA-Series-40bd32c78696	192.168.85.30:80	40:bd:32:c7:86:96	1.4.6.5/ 7.8.0/1.1.85	47ms	
	UA-5231M-4GE	UA-Series-684749ec41d9	192.168.85.212:80	68:47:49:ec:41:d9	1.4.6.5/ 7.8.0/1.1.85	47ms	

Figure 5-152 Display the Hidden Version Field

> 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.

ouble click o	n Module Name or IP	Address to open the we	b interface of Modul	e.			
Select All	Module Name	Host Name	IP Address	MAC Address	Version	Response Time	Notes
	UA-5231	UA-Series-a0f6fd48918f	192.168.1.63:80	a0:f6:fd:48:91:8f	1.4.6.0/ 7.8.0/1.1.85	15ms	
	UA-5231	UA-Series-1442fca93039	192.168.101.2:80	14:42:fc:a9:30:39	1.4.2.0/ 6.6.0/1.1.81	47ms	
	UA-5231(M)	UA-Series-68c90be4d6cc	192.168.1.201:80	68:c9:0b:e4:d6:cc	1.4.6.0/ 7.8.0/1.1.85	47ms	
	UA-5231(M)	UA-Series-40bd32c786 6	192.168.85.30:80	40:bd:32:c7:86:96	1.4.6.5/ 7.8.0/1.1.85	47ms	
	UA-5231M-4GE	UA-Series-684749ec41d	192.168.85.212:80	68:47:49:ec:41:d9	1.4.6.5/ 7.8.0/1.1.85	47ms	
		V 🕲 UA-Series	× +			- 🗆 ×	
		← → C ▲ 不安全	192.168.1.201			☆ 😩 :	
		ICP DAS KP DAS CO. LTT	D/ 5200 nunication Server	Username : [Password : [Language : [English		

Figure 5-153 Open the module's setting web page

> Copy

Click the "Copy" function to directly paste the Host Name, IP, and other information on the module to the third-party software, facilitate module connections with UaExpert, MQTTX, or other third-party software.

Copy the UA IP address as shown in the example below and paste it to MQTTX for connection.

Double click o	n Module Name or IP	Address to open the we	eb interface of Mod	lule.				
Select All	Module Name	Host Name	IP Address	MAC Addre	ss	Version	Response Time	Notes
	UA-5231	UA-Series-a0f6fd48918f	192.168.1.63:80	a0:f6:fd:48:9	1:8f	1.4.6.0/ 7.8.0/1.1.85	16ms	
	UA-5231(M)	UA-Series-40bd32c78696	192.168.85.30:80	copy	5 :96	1.4.6.5/ 7.8.0/1.1.85	47ms	
	UA-5231	UA-Series-1442fca93039	192.168.101.2:80	hide	39	1.4.2.0/ 6.6.0/1.1.81	62ms	
	UA-5231M-4GE	UA-Series-684749ec41d9	192.168.85.212:8	unhide all	:d9	1.4.6.5/ 7.8.0/1.1.85	62ms	
	UA-5231(M)	UA-Series-68c90be4d6cc	192.168.1.201:80	68:c9:0b:e4:	d6:cc	1.4.6.0/ 7.8.0/1.1.85	62ms	
	UA-5231(M)	UA-Series-68c90be4d6cc	192.168.1.201:80	68:c9:0b:e4:	16:cc	1.4.6.0/ 7.8.0/1.1.85	62ms	

Figure 5-154 Copy Function

File Edit V	iew Window Help				File Edit V	few Window Help				- 0 ^
	Connections	± 🗆	< Back	New		Connections	+	192.168.82.90:80 📎 🕕		🖰 🗗 🖉 …
S			General		S	 192.168.82.90:80@ 	9192	+ New Subscription	Plaintext V	All Received Published
			* Name	192.168.82.90.80						
æ			* Client ID	mqtb_3ef01db2	Ð					
+			* Host	mqtt:// v 192.168.82.90:80	+					
			* Port	1883						
			Username							
R	No Data		Password SSL/TLS		B					
ø			Advanced 🔺		ø					
23			MQT	T Version 5.0	20				Plaintext \checkmark QoS 0 \checkmark	Retain Meta
			Connect	Timeout 10					/RR/Jason/test/AAA	×
()			К	eep Alive 60	0				9×20,101,10	600
			Auto R	econnect						Ø

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.

Warning Message	Description	page
This version does not support this feature	The modules already support some Utility functions, but new functions are not yet avaliable.	P.80
Server not responding	The module must be updated to a version that supports Utility, or there may be network problems.	P.80
Please select an updated file	File not selected for update.	P.80
Tick the module(s) that need to be updated	The update file has been imported, but no module is checked for an update.	P.81
Please confirm whether the selected module(s) are the same (##Module Name)	When updating multiple modules, select different modules to update.	P.81
The updated file is different from the selected module(s) series	The firmware update package is different from the checked module series.	P.81
Update Fail	Same series but the firmware update package is different from the checked module.	P.81
Please check the same series of module(s)	Check the different series of modules.	P.82
The remote module(s) does not have any LOG files	There is no Log file on the module.	P.82
Download fail	There is a file download error when downloading.	P.82
Please check to download the file module(s)	No module is checked for download.	P.83
Password error no response	The entered password is different from the module setting utility password, so the action is cancelled.	P.83
EZ-UAQ Utility Already Running	Only one Utility can be opened at a time.	P.83
Unable to download or uploadUnable to download	Unable to download or upload files in the moduleUnable to download	P.84

Table 6-1 Warning Message Form

6.2 Warning Message Description

1. Message:[This version does not support this feature]

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 <u>Appendix A</u> 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.



Figure 6-1 Warning Message: This version does not support this feature

Message:[Server not responding]and[Unable to receive messages from the server]
 Context:[Module Details \Reduce CPU \Protocol security \Update Firmware \Update Project \
 Update Modbus Configuration \Download Log \Download Project \Download Modbus Configuration \HTTPS \OPC UA Server/Client \MQTT Broker/Client \Query validity period]

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

Select All	Module Name	Host Name	IP Address	MAC Address	Version	Response Time	Notes
	UA-5231M	UA-Series-68c90be4d6cc	192.168.82.201:80	68:c9:0b:e4:d6:cc	1.4.6.29/ 8.5.0/1.1.85	16ms	
	UA-5231	UA-Series-1442fca93039	192.168.101.2:80	14:42:fc:a9:30:39	1.4.6.32/ 8.5.0/1.1.85	47ms	
	UA-5231M-4GE	UA-Series-684749ec41d9	192.168.85.200:80	68:47:49:ec:41:d9	1.4.6.32/ 8.5.0/1.1.85	62ms	
	BRK-2841M	BRK-2841M-8461	192.168.84.61:80	00:0d:e0:18:2b:01	1.0.0.79	109ms	
	BRK-2841M	BRK-2841M-8460	192.168.84.60:80	00:0d:e0:18:2b:05	1.0.0.79	141ms	
	U-7526M	000de01820827000	192.168.82.202:80	00:0d:e0:18:20:82	13.2.0.0 / 16.10	156ms	Server not responding
Select All	Module Name	Host Name	IP Address	MAC Address	Version	Response Time	Notes
Select All	Module Name	Host Name	IP Address	MAC Address	Version	Response Time	Notes
Select All	Module Name UA-5231M	Host Name UA-Series-68c90be4d6cc	IP Address 192.168.82.201:80	MAC Address 68:c9:0b:e4:d6:cc	Version 1.4.6.29/ 8.5.0/1.1.85	Response Time 16ms	Notes
Select All	Module Name UA-5231M UA-5231	Host Name UA-Series-68c90be4d6cc UA-Series-1442fca93039	IP Address 192.168.82.201:80 192.168.101.2:80	MAC Address 68:c9:0b:e4:d6:cc 14:42:fc:a9:30:39	Version 1.4.6.29/ 8.5.0/1.1.85 1.4.6.32/ 8.5.0/1.1.85	Response Time 16ms 47ms	Notes
Select All	Module Name UA-5231M UA-5231 UA-5231M-4GE	Host Name UA-Series-68c90be4d6cc UA-Series-1442fca93039 UA-Series-684749ec41d9	IP Address 192.168.82.201:80 192.168.101.2:80 192.168.85.200:80	MAC Address 68:c9:0b:e4:d6:cc 14:42:fc:a9:30:39 68:47:49:ec:41:d9	Version 1.4.6.29/ 8.5.0/1.1.85 1.4.6.32/ 8.5.0/1.1.85 1.4.6.32/ 8.5.0/1.1.85	Response Time 16ms 47ms 62ms	Notes
Select All	Module Name UA-5231M UA-5231 UA-5231 UA-5231M-4GE BRK-2841M	Host Name UA-Series-68c90be4d6cc UA-Series-1442fca93039 UA-Series-684749ec41d9 BRK-2841M-8461	IP Address 192.168.82.201:80 192.168.101.2:80 192.168.85.200:80 192.168.84.61:80	MAC Address 68:c9:0b:e4:d6:cc 14:42:fc:a9:30:39 68:47:49:ec:41:d9 00:0d:e0:18:2b:01	Version 1.4.6.29/ 8.5.0/1.1.85 1.4.6.32/ 8.5.0/1.1.85 1.4.6.32/ 8.5.0/1.1.85 1.0.0.79	Response Time 16ms 47ms 62ms 109ms	Notes
Select All	Module Name UA-5231M UA-5231 UA-5231 UA-5231M-4GE BRK-2841M BRK-2841M	Host Name UA-Series-68c90be4d6cc UA-Series-1442fca93039 UA-Series-684749ec41d9 BRK-2841M-8461 BRK-2841M-8460	IP Address 192.168.82.201:80 192.168.101.2:80 192.168.85.200:80 192.168.84.61:80 192.168.84.60:80	MAC Address 68:c9:0b:e4:d6:cc 14:42:fc:a9:30:39 68:47:49:ec:41:d9 00:0d:e0:18:2b:01 00:0d:e0:18:2b:05	Version 1.4.6.29/ 8.5.0/1.1.85 1.4.6.32/ 8.5.0/1.1.85 1.4.6.32/ 8.5.0/1.1.85 1.0.0.79 1.0.0.79	Response Time 16ms 47ms 62ms 109ms 141ms	Notes

Figure 6-2 Warning Message: Server not responding and Unable to receive messages from the server

Message:[Please select an updated file]
 Context:[Update Firmware \ Update Project \ Update Modbus Configuration]

If you don't select the update file, click the [Update Firmware] \ [Update Project] \ [Update Modbus Configuration] button and this dialog box will pop up. Please click is to select the update package as shown below.

Double click on Module Name or IP Address to open the web			🙀 EZ-UAQ Utility X				
Select All	Module Name	Host Name		ī		Response Time	Notes
	UA-5231M	UA-Series-68c90be4d6cc		5	.0/1.1.85	16ms	
	UA-5231M-4GE	UA-Series-684749ec41d9	Please select an updated file	5	.0/1.1.85	16ms	
	UA-5231	UA-Series-1442fca93039		5	.0/1.1.85	32ms	
	BRK-2841M	BRK-2841M-8461 1				110ms	
	BRK-2841M	BRK-2841M-8460 1	OK			157ms	

Figure 6-3 Warning Message: Please select an updated file

Message:[Tick the module(s) that need to be updated]
 Context:[Update Firmware
 Update Project
 Update Modbus Configuration
 HTTPS
 OPC UA Server/Client
 MQTT Broker/Client]

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

Double click c	on Module Name or I	P Address to open the web	🥵 EZ-UAQ Utility X			
Select All	Module Name	Host Name			Response Time	Notes
	UA-5231M	UA-Series-68c90be4d6cc 1		5.0/1.1.85	16ms	
	UA-5231	UA-Series-1442fca93039 1	Tick the module(s) that need to be updated	5.0/1.1.85	31ms	
	BRK-2841M	BRK-2841M-8460 1			109ms	
	BRK-2841M	BRK-2841M-8461 1			125ms	
	U-7526M	000de01820827000 1	ОК	6.10	141ms	

Figure 6-4 Warning Message: Tick the module(s) that need to be updated

 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.

			🥵 EZ-UAQ Utility	×			
Double click	on Module Name or I	P Address to open the wel					
Select All	Module Name	Host Name				Response Time	Notes
	UA-5231M	UA-Series-68c90be4d6cc	Please confirm whether the selected		5.0/1.1.85	15ms	
	UA-5231	UA-Series-1442fca93039	module(s) are the same(U-7526M		5.0/1.1.85	31ms	
	BRK-2841M	BRK-2841M-8461	UA-5251M)			109ms	
	BRK-2841M	BRK-2841M-8460				156ms	
	U-7526M	000de01820827000	OK		610	156ms	

Figure 6-5 Warning Message: Please confirm whether the selected module(s) are the same

 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-.

Double click o	on Module Name o	l r IP Address to open the wel	👯 EZ-UAQ Utility				
Select All	Module Name	Host Name				Response Time	Notes
	UA-5231M	UA-Series-68c90be4d6cc	The updated file is different from the	5.0	0/1.1.85	62ms	
	UA-5231	UA-Series-1442fca93039	selected module(s) series	5.0	0/1.1.85	93ms	
	BRK-2841M	BRK-2841M-8460	1			390ms	
	BRK-2841M	BRK-2841M-8461	1			437ms	
	U-7526M	000de01820827000	ОК	6.1	10	437ms	

Figure 6-6 Warning Message: The updated file name is different from the selected module(s) series

7. Message:[Update Fail]

Context:[Update Firmware \ Update Project \ Update Modbus Configuration \ HTTPS \ OPC UA Server/Client \ MQTT Broker/Client]

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.

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Select All	Module Name	Host Name	IP Address	MAC Address	Version	Response Time	Notes
	UA-5231M	UA-Series-68c90be4d6cc	192.168.82.201:80	68:c9:0b:e4:d6:cc	1.4.6.29/ 8.5.0/1.1.85	16ms	Update Fail
	UA-5231	UA-Series-1442fca93039	192.168.101.2:80	14:42:fc:a9:30:39	1.4.6.32/ 8.5.0/1.1.85	32ms	
	BRK-2841M	BRK-2841M-8461	192.168.84.61:80	00:0d:e0:18:2b:01	1.0.0.79	110ms	
	BRK-2841M	BRK-2841M-8460	192.168.84.60:80	00:0d:e0:18:2b:05	1.0.0.79	141ms	
	U-7526M	000de01820827000	192.168.82.202:80	00:0d:e0:18:20:82	13.2.0.0 / 16.10	157ms	
	U-7567M	000de01821027000	192.168.81.100:80	00:0d:e0:18:21:02	7.0.0.0 / 16.10	250ms	
	U-7526M	000de01820117000	192.168.102.1:80	00:0d:e0:18:20:11	12.0.0.0 / 15.9	297ms	

Figure 6-7 Warning Message: Update Fail

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.

Message:[Please check the same series of module(s)]
 Context: [Download Log

 Download Project
 Download Modbus Configuration]

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

Double click o	n Module Name or IE	Address to open the we	🙀 EZ-UAQ Utility	×		
Select All	Module Name	Host Name			Response Time	Notes
	UA-5231M	UA-Series-68c90be4d6cc	1	5.0/1.1.85	0ms	
	UA-5231	UA-Series-1442fca93039	Please check the same series of module(s)	5.0/1.1.85	31ms	
	BRK-2841M	BRK-2841M-8461	1		109ms	
	BRK-2841M	BRK-2841M-8460	1		109ms	
	U-7526M	000de01820827000		6.10	141ms	

Figure 6-8 Warning Message: Please check the same series of module(s)

9. 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.

Select All	Module Name	Host Name	IP Address	MAC Address	Version	Response Time	Notes
	UA-5231	UA-Series-1442fca93039	192.168.101.2:80	14:42:fc:a9:30:39	1.4.6.32/ 8.5.0/1.1.85	31ms	
	UA-5231M	UA-Series-68c90be4d6cc	192.168.82.201:80	68:c9:0b:e4:d6:cc	1.4.6.29/ 8.5.0/1.1.85	31ms	
	BRK-2841M	BRK-2841M-8461	192.168.84.61:80	00:0d:e0:18:2b:01	1.0.0.79	156ms	
	BRK-2841M	BRK-2841M-8460	192.168.84.60:80	00:0d:e0:18:2b:05	1.0.0.79	156ms	
	U-7526M	000de01820827000	192.168.82.202:80	00:0d:e0:18:20:82	13.2.0.0 / 16.10	203ms	The remote module(s) does not have any LOG files
	U-7526M	000de01820117000	192.168.102.1:80	00:0d:e0:18:20:11	12.0.0.0 / 15.9	312ms	

Figure 6-9 Warning Message: The remote module(s) does not have any LOG files

10. Message: [Download fail]

Context:[Download Log \ Download Project \ Download Modbus Configuration]

The download failure might be due to poor network quality in the environment, causing the file to not download successfully. If there is any issue with the downloaded file, a reload mechanism will be triggered. If the reload fails three times, the folder will be retained.

Select All	Module Name	Host Name	IP Address	MAC Address	Version	Response Time	Notes
	UA-5231M	UA-Series-68c90be4d6cc	192.168.82.201:80	68:c9:0b:e4:d6:cc	1.4.6.29/ 8.5.0/1.1.85	16ms	
	UA-5231	UA-Series-1442fca93039	192.168.101.2:80	14:42:fc:a9:30:39	1.4.6.32/ 8.5.0/1.1.85	16ms	
	BRK-2841M	BRK-2841M-8461	192.168.84.61:80	00:0d:e0:18:2b:01	1.0.0.79	109ms	
	BRK-2841M	BRK-2841M-8460	192.168.84.60:80	00:0d:e0:18:2b:05	1.0.0.79	141ms	
	U-7526M	000de01820827000	192.168.82.202:80	00:0d:e0:18:20:82	13.2.0.0 / 16.10	156ms	Download fail
	U-7560M	000de01821027000	192.168.81.100:80	00:0d:e0:18:21:02	14.0.0.0 / 16.10	234ms	
	U-7526M	000de01820117000	192.168.102.1:80	00:0d:e0:18:20:11	12.0.0.0 / 15.9	281ms	

Figure 6-10 Warning Message: Download fail

The picture below shows the selected storage path.



11. Message: [Please check to download the file module(s)]

Context: [Download Project
 Download Log
 Download Modbus Configuration]

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

Double click o	n Modulo Namo or II	Address to open the well	🥵 EZ-UAQ Utility	×			
Select All	Module Name	Host Name				Response Time	Notes
	UA-5231M	UA-Series-68c90be4d6cc	Please check to download the file		5.0/1.1.85	16ms	
	UA-5231	UA-Series-1442fca93039	module(s)		5.0/1.1.85	31ms	
	BRK-2841M	BRK-2841M-8461	1			109ms	
	BRK-2841M	BRK-2841M-8460				156ms	
	U-7526M	000de01820827000	<u>Ок</u>		6.10	156ms	

Figure 6-11 Warning Message: Please check to download the file module(s)

12. Message: [Password error no response]

Context:[Reduce CPU Protocol security Update Firmware Update Project Update Modbus Configuration Download Log Download Project Download Modbus Configuration HTTPS OPC UA Server/Client MQTT Broker/Client]

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.

Select All	Module Name	Host Name	IP Address	MAC Address	Version	Response Time	Notes
	UA-5231M	UA-Series-68c90be4d6cc	192.168.82.201:80	68:c9:0b:e4:d6:cc	1.4.6.29/ 8.5.0/1.1.85	0ms	
	UA-5231	UA-Series-1442fca93039	192.168.101.2:80	14:42:fc:a9:30:39	1.4.6.32/ 8.5.0/1.1.85	16ms	
	BRK-2841M	BRK-2841M-8461	192.168.84.61:80	00:0d:e0:18:2b:01	1.0.0.79	110ms	
	BRK-2841M	BRK-2841M-8460	192.168.84.60:80	00:0d:e0:18:2b:05	1.0.0.79	141ms	
	U-7526M	000de01820827000	192.168.82.202:80	00:0d:e0:18:20:82	13.2.0.0 / 16.10	141ms	Password error no response

Figure 6-12 Warning Message: Password error no response

13. Message:[EZ-UAQ Utility Already Running] Context:[Unable to open Utility repeatedly]

As long as the Utility is open, it is not possible to open another one.

Select All	Module Name	Host Name	IP Add	🙀 EZ-UAQ Utility	×	Response Time	Notes
				EZ-UAQ Utility Already Running			

Figure 6-13 Warning Message: EZ-UAQ Utility Already Running

14. Message:[Unable to download]or[Unable to upload]

Context:[Update Firmware \ Update Project \ Update Modbus Configuration \ Download Log \ Download Project \ Download Modbus Configuration \ HTTPS \ OPC UA Server/Client \ MQTT Broker/Client]

The message in the image indicates that the EZ-UAQ Utility is unable to download files from the module or upload files to the module. When encountering this issue, the module needs to be restarted to resolve the upload and download problems.

Select All	Module Name	Host Name	IP Address	MAC Address	Version	Response Time	Notes
	UA-5231M	UA-Series-68c90be4d6cc	192.168.82.201:80	68:c9:0b:e4:d6:cc	1.4.6.29/ 8.5.0/1.1.85	16ms	
	UA-5231	UA-Series-1442fca93039	192.168.101.2:80	14:42:fc:a9:30:39	1.4.6.32/ 8.5.0/1.1.85	16ms	
	BRK-2841M	BRK-2841M-8461	192.168.84.61:80	00:0d:e0:18:2b:01	1.0.0.79	109ms	
	BRK-2841M	BRK-2841M-8460	192.168.84.60:80	00:0d:e0:18:2b:05	1.0.0.79	141ms	
	U-7526M	000de01820117000	192.168.102.1:80	00:0d:e0:18:20:11	12.0.0.0 / 15.9	156ms	
	U-7526M	000de01820827000	192.168.82.202:80	00:0d:e0:18:20:82	13.2.0.0 / 16.10	187ms	Unable to download
	U-7560M	000de01821027000	192.168.81.100:80	00:0d:e0:18:21:02	14.0.0.0 / 16.10	250ms	
_							
Select All	Module Name	Host Name	IP Address	MAC Address	Version	Response Time	Notes
	UA-5231	UA-Series-1442fca93039	192.168.101.2:80	14:42:fc:a9:30:39	1.4.6.32/ 8.5.0/1.1.85	Oms	
	UA-5231M	UA-Series-68c90be4d6cc	192.168.82.201:80	68:c9:0b:e4:d6:cc	1.4.6.29/ 8.5.0/1.1.85	15ms	Unable to upload
	BRK-2841M	BRK-2841M-8461	192.168.84.61:80	00:0d:e0:18:2b:01	1.0.0.79	109ms	
	BRK-2841M	BRK-2841M-8460	192.168.84.60:80	00:0d:e0:18:2b:05	1.0.0.79	156ms	
	U-7526M	000de01820827000	192.168.82.202:80	00:0d:e0:18:20:82	13.2.0.0 / 16.10	156ms	
	U-7526M	000de01820117000	192.168.102.1:80	00:0d:e0:18:20:11	12.0.0.0 / 15.9	156ms	
	U-7560M	000de01821027000	192.168.81.100:80	00:0d:e0:18:21:02	14.0.0.0 / 16.10	281ms	

Figure 6-14 Warning Message: Unable to download or Unable to upload

Appendix A

Module Function Support:

1. UA Series

version After	Function	Firmware	Project	Log	Project	Details	usage	Configuration
1.4.2.0 (inclusive)	~	~	~	~	~		~	~

Starting from 1.4.6.32, the following new features have been added:

Factory version	HTTPS	OPC UA Server	OPC UA Client	MQTT Broker	MQTT Client	Protocol security	Update Modbus Configuration
After 1.4.6.32 (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 Configuration
Before 13.8	<	<	<	<	*	$\boldsymbol{>}$	*	≫
After 13.8 (inclusive)	~	~	~	~	~	~	~	*

Starting from 16.10, the following new features have been added:

Factory version	HTTPS	OPC UA Server	OPC UA Client	MQTT Broker	MQTT Client	Protocol security	Update Modbus Configuration
After 16.10 (inclusive)	~	~	~	≫	~	≫	≫

3. BRK Series

Factory version	Basic Function	Update Firmware	Download Project	Download Log	Update Project	Module Details	Reduce CPU usage	Download Modbus Configuration
1.0.0.0	*	\approx	\Rightarrow	\approx	**	**	\Rightarrow	*

Starting from 1.1.0.0, the following new features have been added:

Factory version	HTTPS	OPC UA Server	OPC UA Client	MQTT Broker	MQTT Client	Protocol security	Update Modbus Configuration
After 1.1.0.0 (inclusive)	≫	≫	≫	<	≫	<	≍

Appendix B

Set EZ-UAQ Utility password:

1. UA communication server series

Please go to the UA web interface to configure, 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.

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									>>	- M	有書籤
ICP UA-2200/520	0 ion Serv	er		•	Function Wiz	zard (Click	here)				~
DAS ICP DAS CO,, LTD.					Usage :	CPU 14%	Memory 28.58%	su	Card	€	Log Out
System Setting Module	e Setting	loT	Platform Se	tting Cor	wert Setting	Advar	ced Setting	Log	ger Setti	ng	
I/O Status File Setting											
System Setting EZ-UAQ Utility											
Controller Service Setting	Passv	vord S	Setting								
Time Setting			Password	•••••							
Network Setting		Confirr	m Password	•••••]					
Account Setting					Savo						
Boot					Jave						
COM Port Interface Setting	Alias	Settin	igs								
Web and Secure			Alias	Reading roo	m						
EZ-UAQ Utility					Save						

2. 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.

♥ 🕵 U-7526M	× +	- 🗆 X
← → C 🥻	不安全 192.168.82.202	् ९ 🕁 🚨 :
		>> □ 所有書籤
ICP UA I/O		Log out -
DAS ICP DAS CO,.	LTD.	
System Settings	Module Settings OPC UA Settings MQTT Settings Advanced Set	ings
Event Log	EZ-UAQ Utility Settings	
 Main Settings 	Password	
 Messages → Line 	Confirm Password	
Rule Settings		
 Main Settings 	Nickname Conference room	
 I/O Control 		
 Link-Up 		
 Schedule 	Save	
Io Istar Settings		

3. BRK communication server series

Please go to the BRK web interface to configure, and then click Utility => 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.

• 192.168.84.61:8000/Utility/?	× +				-		×
← → C ▲不安全 192.16	8.84.61:8000/Util	ity/?		G	९ 🕁		:
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BRK Series BRK Series Int MOTT Broker ICP DAS CO, LTD.					Log Ou	ıt	
System setting MQTT	setting	Database	Advanced setting				
Account	Utility	Password					
Network		Password					
Time			Save				
Language	Alias						
Project file		Alias					
Utility			Save				

Appendix C

Certificate Date Input Restrictions:

EZ-UAQ UtiThe maximum validity period of the EZ-UAQ Utility certificate is two years. It is recommended that users set the certificate expiration date to one month.

🥵 Certificate v	alidity date	—	1 ×
🗆 Day	🗹 Month	🗌 Үеат	
1			
	ОК		

Have to enter the expiration days of the certificate

Minimum Value:

Day: The minimum value is 2. If it is lower than this, the message below will be triggered.



Maximum Value:

Year: The maximum value is 2; **Month:** the maximum value is 24; **Day:** The maximum value is 730. If it exceeds this value, the message below will be triggered.



Appendix D

Resolving UA, UA I/O, and BRK Web Connection Security Issues

If the UA, UA I/O, or BRK web pages display as insecure, please update the HTTPS certificate, export it, and then import it into the browser to resolve the issue.

Taking UA Communication Server as an example, the steps are as follows:

Step 1: Open the browser and enter the IP address of the UA Communication Server, then click the judget button in the upper-right corner, and select 'Settings.



Step 2: Click on [Privacy and Security].



Step 3: Click on [Security]



Step 4: Click on [Manage certificates]



Step	5:	Click	on	[Manage	imported	certificates	from	Windows]
------	----	-------	----	---------	----------	--------------	------	----------

V 🕲 UA-Series 🗙 🛛	🌣 Settings - Security X 🛃 Certificate Manager X +	- 🗆 ×
\leftrightarrow \rightarrow C (Shrome chrome://c	ertificate-manager	☆ ひ ⊕ :
🔡 📄 🚖 🗈 🛂 YoutubeDownload	der 🔮 超級汪三 🔞 About ICP DAS 🌍 spotify 😽 歡迎使用 ICPDAS W	» 🛛 🗅 All Bookmarks
Certificate Manager		
Local certificates	Local certificates	
F Your certificates	Local certificates that have been added by your operating system or your administrator.	
Chrome Root Store	Windows	
	Use imported local certificates from your operating system 52 certificates	
	View imported certificates from Windows	>
	Manage imported certificates from Windows	Ľ

Step 6: Click on [Trusted Root Certification Authorities], Click 'Import' to import the certificate generated by the software.

Certificates ×						
Intended purpose: <all></all>	•			\sim		
Intermediate Certification Authorities Trusted Root Certification Authorities Trusted Publ						
Issued To	Issued By	Expiratio	Friendly Name	^		
AAA Certificate Ser Actalis Authenticati AddTrust External Baltimore CyberTru bmai.icpdas.com bmail.icpdas.com Buypass Class 2 Ro Certum CA Certum Trusted Ne	AAA Certificate Services Actalis Authentication AddTrust External CA Baltimore CyberTrust bmai.icpdas.com bmail.icpdas.com Buypass Class 2 Root Certum CA Certum Trusted Netw	1/1/2029 9/22/2030 5/30/2020 5/13/2025 5/7/2034 11/4/2027 10/26/2040 6/11/2027 12/31/2029	Sectigo (AAA) Actalis Authentic Sectigo (AddTrust) DigiCert Baltimor <none> <none> Buypass Class 2 Certum Certum Trusted</none></none>	~		
Import Export Remove Advanced Certificate intended purposes						
			Clo	se		

In the [Certificate Import Wizard] page, click 'Next,' and then select 'Browse.'



Step 7: Then, select the HTTPS certificate.

Export the updated HTTPS certificate as a compressed certificate file using the certificate export function, then decompress it to retrieve the HTTPS certificate.

🧿 Open							×
$\leftarrow \ \ \rightarrow$	* ↑ — > This PC > Desktop				~ Ū	Search Desktop	0
Organize	✓ New folder					III 🕶 🔲	•
*	Name BKK-2841M_192.168.84.60_Project	Date modified 9/25/2024 9:55 AM	Type File folder	Size			^
	cert	11/12/2024 3:57 PM	File folder				- 1
	U-7526M Live Demo	3/16/2023 5:28 PM	File folder				
	U-7526M_192.168.1.202_LOG	9/18/2024 10:04 AM	File folder				
	U-7526M_192.168.82.202_Project	1/14/2025 5:12 PM	File folder				
~	UA-5231M192.168.82.201Https	3/5/2025 2:58 PM	File folder				~
	File name:				~	X.509 Certificate (*.cer;*.crt)	\sim
						Open Canc	el

In the [Certificate Import Wizard] page, Click 'Next,' then select [Place all certificates in the following store (P)], and then click 'Next' again.

←	← 😺 Certificate Import Wizard
File to Import Specify the file you want to import.	Certificate Store Certificate stores are system areas where certificates are kept.
File name: ers\cpda\Desktop\UA-5231M192.168.82.201Https\cpdashttps.crt\ Browse Note: More than one certificate can be stored in a single file in the following formats: Personal Information Exchange-PKCS #12 (.PFX,.P12)	Windows can automatically select a certificate store, or you can specify a location for the certificate. Automatically select the certificate store based on the type of certificate Place all certificates in the following store Certificate store:
Cryptographic Message Syntax Standard- PKCS #7 Certificates (.P7B) Microsoft Serialized Certificate Store (.SST)	Trusted Root Certification Authorities Browse
Next Cancel	Next Cancel

In the [Certificate Import Wizard] page, click 'Finish.'

←	Certificate Import Wizard					
	Completing the Certifi	cate Import Wizard				
	The certificate will be imported after you click Finish.					
	You have specified the following set	tings:				
	Certificate Store Selected by User Trusted Root Certification Authorities					
	File Name	C: \Users \icpda \Desktop \UA-5231M192.168.82.201H				
	<	>				
		Finish Cancel				

Next, a [Security Warning] window will appear. Please click 'Yes (Y).'



In the [Certificate Import Wizard] window, a message will appear indicating that the import was successful, meaning the HTTPS certificate has been successfully imported into the browser. Please click 'OK.'



Step 8: Verify that the certificate has been successfully imported into the browser, and then click 'Close.'

Certificates					×
Intended purpose: <all></all>	,				\sim
Intermediate Certification Authorities Trusted Root Certification Authorities Trusted Publ					4 ►
Issued To	Issued By	Expiratio 10/25/2024	Friendly <none></none>	Name	^
UA-5231M_192.16. USERTrust RSA Cer UTN-USERFirst-Obj VeriSign Class 3 Pu VeriSign Universal XBL Client IPsec Iss XBL Server IPsec Is	UA-5231M_192.168.8 USERTrust RSA Certifi UTN-USERFirst-Object VeriSign Class 3 Public VeriSign Universal Ro XBL Client IPsec Issui XBL Server IPsec Issui	3/7/2025 1/19/2038 7/10/2019 7/17/2036 12/2/2037 9/21/2028 9/21/2028	<none> Sectigo Sectigo VeriSign VeriSign <none></none></none>	(UTN Ob) Univers >	*
Import Export Certificate intended purpose Server Authentication	Remove			Advan	ced
				Close	e

Step 9: After closing the browser, please reopen it and enter the HTTPS IP address of the UA Communication Server.

To open the [Certificate Viewer window], first click the button in the upper-left corner, then click [Secure Connection Established] > [Certificate Valid].

