RTU Web Server

Installation Manual

Warranty

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1. Introduction

The M2M RTU Center provided by ICP DAS is an M2M (Machine to Machine) management software that saves users time when dealing with large amounts of I / O data. It supports RTU devices such as G-4514, GTP-541M and RTU-140, allows users to remotely monitor the device's I / O status and GPS data.

ICP DAS provides the source code of the web server. With XAMPP, users can quickly set up the web server. Through the Restful API service provided by RTU Center, the status of RTU devices and Modbus Slave devices can be monitored on the web page.



1.1 Software Architecture

2. Install M2M RTU Center

2.1 Please download M2M RTU Center from the official website: <u>http://www.icpdas.com/en/download/show.php?num=1227&nation=US&ki</u> <u>nd1=6&kind2=&model=&kw=M2M+RTU+Center</u>

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	Interop.NetFwTypeLib.dll	2020/11/16 上午 11:56	應用程式擴充	32 KB	
■ 網路	log4net.dll	2013/7/17 下午 04:11	應用程式擴充	264 KB	
	M2M_RTU.dll	2013/11/5 下午 04:41	應用程式擴充	4,744 KB	
	M2M_RTU_NET.dll	2013/10/29 下午 05:33	產用程式擴充	16 KB	
	MySql.Data.dll	2012/11/21 下午 02:11	應用程式擴充	363 KB	
	NModbus4.dll	2021/7/7 上午 11:02	應用程式擴充	74 KB	
	nmodbuspc.dll	2013/7/17下午 04:11	應用程式擴充	75 KB	
	RTU_Center.exe	2020/12/7 下午 04:28	應用程式	518 KB	
	RTU_Center.pdb	2020/12/7 下午 04:28	PDB 檔案	270 KB	_

2.2 Unzip the folder and open RTU Center

2.3 For how to use RTU Center, please refer to the following links: <u>http://www.icpdas.com/en/download/file.php?num=4572</u>

3. Start MB Restful Service

3.1 Click the MB Restful Service button

File Settings Help			
	1		し
GTP-541M		Parameter	Status
MB Restful Service Setting	1		
Modbus Parameter		Attributes	
Station ID :	1	Status : STO	Ρ
Modbus Port :	502	Host IP :	
System Parameter		Service Port :	
Version :	1.04	Station ID :	
Host IP:	172.18.221.28 ∨	Modbus Port :	
Web Service Port :	7788	Web Key Enable : DIS	ABLE

• System Parameter

- Host IP: Restful API Service IP address, it is recommended to set to localhost.
- Web Service Port: Restful API Service port number, Range from 0 to 65535

3.2 After the setup is complete, click the **Start** button

MB Restful Service Setting			
Modbus Parameter		Attributes	
Station ID :	1	🗧 Status :	RUN
Modbus Port :	502	+ Host IP :	172.18.221.28
System Parameter		Service Port	t: 7788
Version :	1.04	Station ID :	1
Host IP:	172.18.221.	28 V Modbus Port	: 502
Web Service Port :	7788	🗘 Web Key En	able : DISABLE
Web Service Key :	Config	Cancel	Stop Start

4. Install XAMPP Web Server

- 4.1 Please download and install XAMPP from the following link: <u>https://www.apachefriends.org/download.html</u>
- 4.2 Click Next

🖾 Setup		-		×
	Setup - XAMPP Welcome to the XAMPP Setup Wizard.			
bitnami				
	< Back	ext >	Can	cel

4.3 After selecting the components of XAMPP, click $\ensuremath{\textbf{Next}}$

😫 Setup	– 🗆 X
Select Components	8
Select the components you want to install; cle when you are ready to continue.	ar the components you do not want to install. Click Next
 Server Apache MySQL FileZilla FTP Server Mercury Mail Server Tomcat Program Languages PHP Perl Program Languages phpMyAdmin Webalizer Fake Sendmail 	Click on a component to get a detailed description
XAMPP Installer	< Back Next > Cancel

4.4 After selecting the installation folder, click Next

🖾 Setup		_		×
Installation folder				8
Please, choose a folder to install XAMPP				
Select a folder C:\xxampp	12]		
XAMPP Installer	. De ch	Newto		
	< Back	Next >	L Ca	uncei

4.5 After selecting the language, click Next

🖾 Setup				-		×
Languag	e					83
XAMPP C	ontrol Panel for ¥	Vindows supports	different languages.			
Language	English		\sim			
XAMPP Inst	ller		< Back	Next >	Ca	ncel

4.6 Click Next



4.7 Click Next to start the installation



5. Start RTU Restful API Service

5.1 Put the **rtuRestful** folder in **htdocs** folder of the XAMPP installation path

→ · ↑ <mark> </mark> · 3	5機 > Windows (C:) > xampp > htdocs	~	O P 授尊 htd	ocs
	名稱	修改日期	調整	大小
★ 保護存取	dashboard	2022/9/22 下午 03:01	橫窗資料夾	
本權	img	2022/9/22 下午 03:01	橫當資料夹	
3D 初件		2022/9/22 下午 03:26	檔實資料夾	
➡ 下戲	webalizer	2022/9/22 下午 03:01	福書資料夾	
國 文件	🗧 📙 xampp	2022/9/22 下午 03:25	橫當資料夾	
h 音塔	o applications.html	2019/8/27 下午 10:02	Chrome HTML D	4 KB
- d T	bitnami.css	2019/8/27 下午 10:02	暗層式模式表文件	1 KB
	avicon.ico	2015/7/16 下午 11:32	國示	31 KB
	index.php	2015/7/16 下午 11:32	PHP东源檔案	1 KB
2 8A				
Windows (C:)				
▶ 網路				

5.2 Open the **config.js** file and write the IP address and port of the Restful API Service you set in Section 2.1



5.3 Open the XAMPP control panel and click the **Start** button to start the web server

XAMP	P Control Pa	inel v3.3.0 [Co	mpiled: Apr 6th	2021]			-		×
ខ	XAI	MPP Contro	ol Panel v3	.3.0				Po	onfig
Modules Service	Module	PID(s)	Port(s)	Actions				🙆 Ne	etstat
	Apache			Start	Admin	Config	Logs	1	Shell
	MySQL			Start	Admin	Config	Logs	Ex Ex	plorer
	FileZilla			Start	Admin	Config	Logs	😴 Se	rvices
	Mercury			Start	Admin	Config	Logs	0 H	lelp
	Torncat			Start	Admin	Config	Logs		Quit
上午 11:34 上午 11:34 上午 11:34 上午 11:34 上午 11:34 上午 11:34 上午 11:34 上午 11:34	17 [main] 17 [main] 17 [main] 17 [main] 17 [main] 17 [main] 17 [main] 17 [main] 17 [main]	Initializing Co Windows Ve XAMPP Ven Control Panel You are not n most applicat there will be a about running XAMPP Inst	ontrol Panel rsion: Enterprise (sion: 7.4.29 Version: 3.3.0 [(unning with admin ion stuff but when a security dialogue this application w allation Directory:	64-bit Compiled: Ap istrator rights ever you do so or things will ith administra "c:Wampp\"	r 6th 2021] This will we mething with break! So this tor rights	wit for services alt			<

5.4 Enter localhost/rtuRestful/index.html in the browser





- Total of RTU device:
 - Total: The number of devices you have added in RTU Center.
 - Online: Number of devices connected to RTU Center.
 - Offline: Number of devices not yet connected to RTU Center.
- Information of RTU device:
 - Status: Device connection status.
 - Station ID: RTU device ID.
 - Device Name: RTU device name.
 - Modbus Number: Number of Modbus Slave devices.
 - Send Once Time: Reserved, not currently in use.
 - Detail: Click to display device details, as shown below:

	Device Info		
	255 Local IO	Online Status	
Device list 🛛 🛶 🛶	33 MB_ 33	3 DI	
		8 AI	
		DI	DIO
Device information		AI	
	GPS Map Type:GPRM	C,有效定位 9號 17號 ● 0 ^{22號} 0 印	70235 Longitude:120.7156824
GPS positioning	+ 4 308 148 68 - 438 238 - 438 238 - 438 238 - 438 128 328 - 438 128 128 38 - 438 128 - 438 128 - 438 128 - 138 138 - 438 28 - 438 - 438 28 - 43	124 2240 1710 184 185 184 185 184 185 184 185 184 185 184 185 184 185 184 185 185 185 185 185 185 185 185 185 185	and the second s
	15號 53號 55號 56號 11號 29號 92之2號 122號 56號 50號 7 68號 105號	the state of the second second	NOTE A CONT

•	Device list:	List the RTU devices and the Modbus
		slaves.
•	Device information:	Displays connection status, time, I/O
		status and GPS location of the RTU
		devices and the Modbus Slave
		devices.
•	GPS positioning:	If the RTU device supports the GPS
		function, the coordinates of the device
		will be displayed.