

Mitsubishi iQ-R Series - Binary Mode (Symbolic Addressing) (Ethernet)

Supported Series: Mitsubishi

R00/R01/R02/R04/R08/R16/R32/R120/R04EN/R08EN/R16EN/R32EN/R120EN/R08P/R16P/R32P/R120P/R08SF/R16SF/R32SF/R120SF/R08PSF/R16PSF/R32PSF/R120PSF

CPU Ethernet Module, M80 CNC Controller

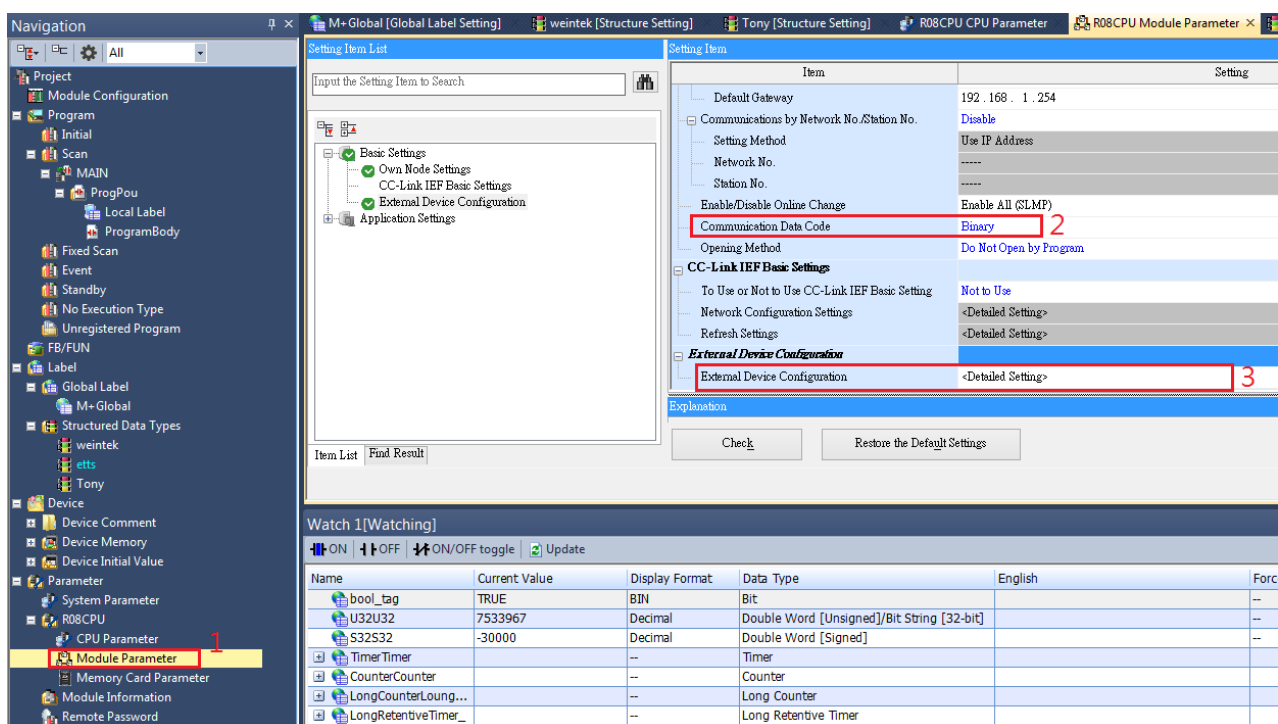
Website: <http://www.mitsubishi-automation.com>

HMI Settings:

Parameters	Recommended	Options	Notes
PLC type	Mitsubishi iQ-R Series - Binary Mode (Symbolic Addressing) (Ethernet)		
PLC I/F	Ethernet		
Port no.	4999		
Station No.	255		
Network number	0	0 ~ 999	

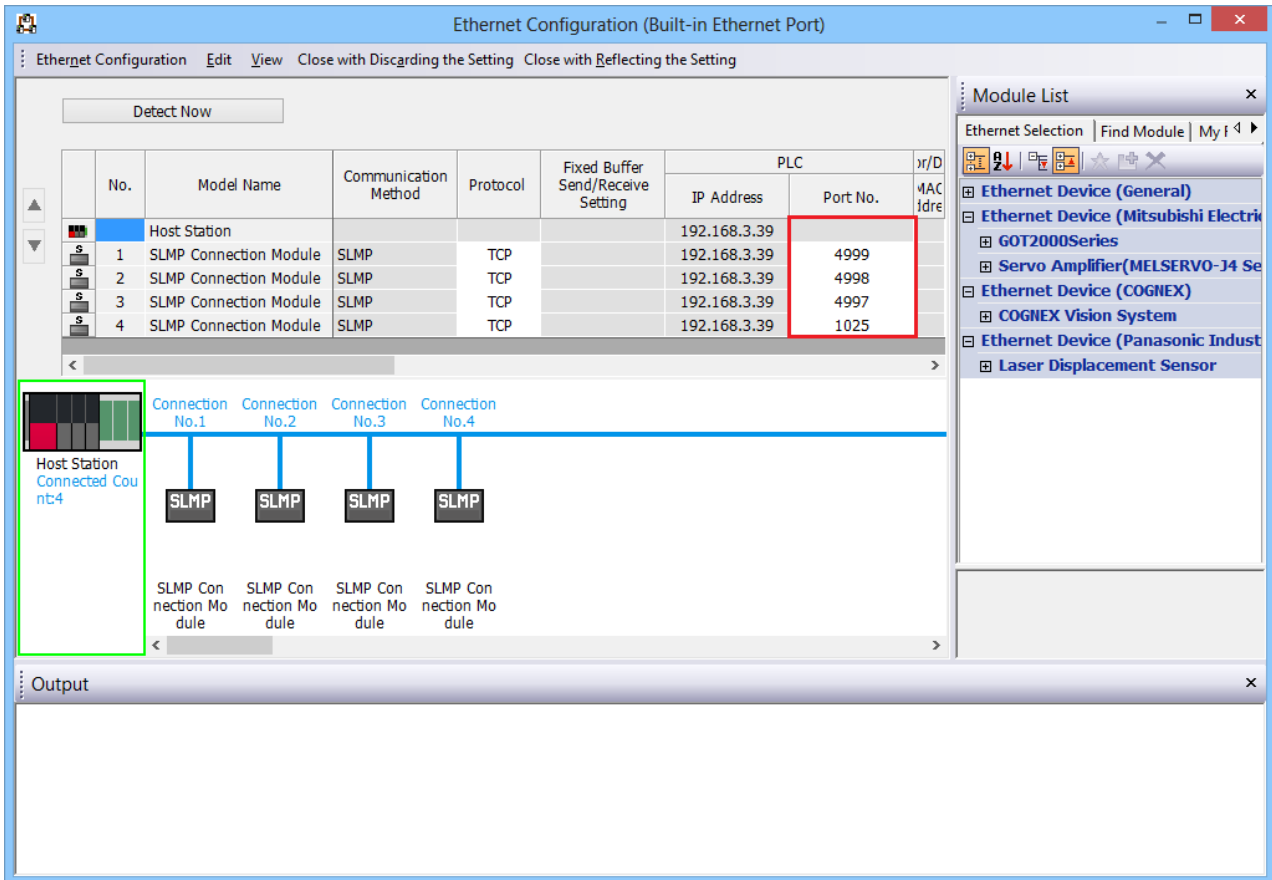
PLC Settings:

Communication Data Code	Binary
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The screenshot displays the WEINTEK software interface for configuring PLC settings. The left sidebar shows the project structure, with 'Module Parameter' highlighted (1). The main window shows the 'Setting Item' list, where 'Communication Data Code' is set to 'Binary' (2). The 'External Device Configuration' is set to '<Default Setting>' (3). The 'Watch' window at the bottom shows various system parameters like bool_tag, U32U32, S32S32, and timers.

External Device Configuration -> Added SLMP Connection Module, and set different port numbers to use when multiple HMIs communicate at the same time.



Ethernet Configuration (Built-in Ethernet Port)

Detect Now

No.	Model Name	Communication Method	Protocol	Fixed Buffer Send/Receive Setting	PLC		MAC Address
					IP Address	Port No.	
	Host Station				192.168.3.39		
1	SLMP Connection Module	SLMP	TCP		192.168.3.39	4999	
2	SLMP Connection Module	SLMP	TCP		192.168.3.39	4998	
3	SLMP Connection Module	SLMP	TCP		192.168.3.39	4997	
4	SLMP Connection Module	SLMP	TCP		192.168.3.39	1025	

Host Station Connected Count: 4

Connection No.1 Connection No.2 Connection No.3 Connection No.4

SLMP SLMP SLMP SLMP

SLMP Connection Module SLMP Connection Module SLMP Connection Module SLMP Connection Module

Module List

Ethernet Selection Find Module My f

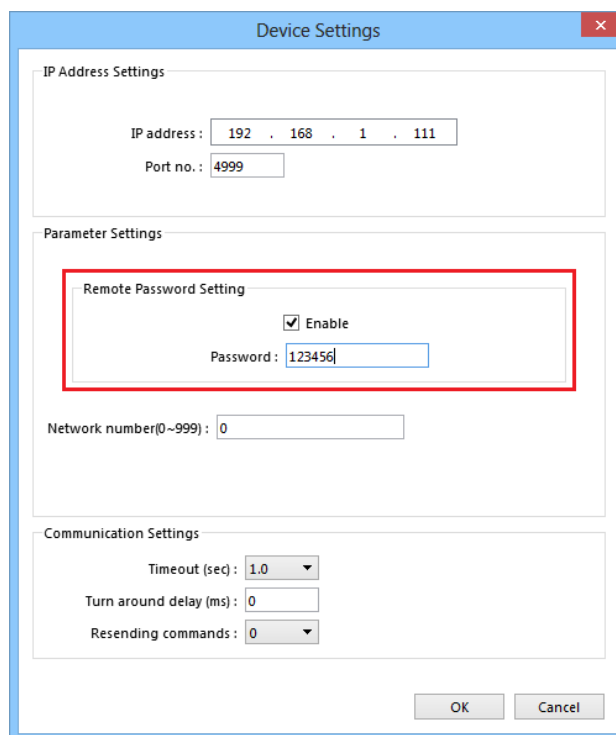
- Ethernet Device (General)
- Ethernet Device (Mitsubishi Electric)
 - GOT2000Series
 - Servo Amplifier(MELSERVO-J4 Series)
- Ethernet Device (COGNEX)
 - COGNEX Vision System
- Ethernet Device (Panasonic Industrial)
- Laser Displacement Sensor

Output

Remote Password Setting:

Set a remote password and a target connection in the engineering tool, and write the data to the CPU module.

Navigation Window => **[System Parameter]** => **[Device]** => **[Driver Settings]** => **[Remote Password Setting]**

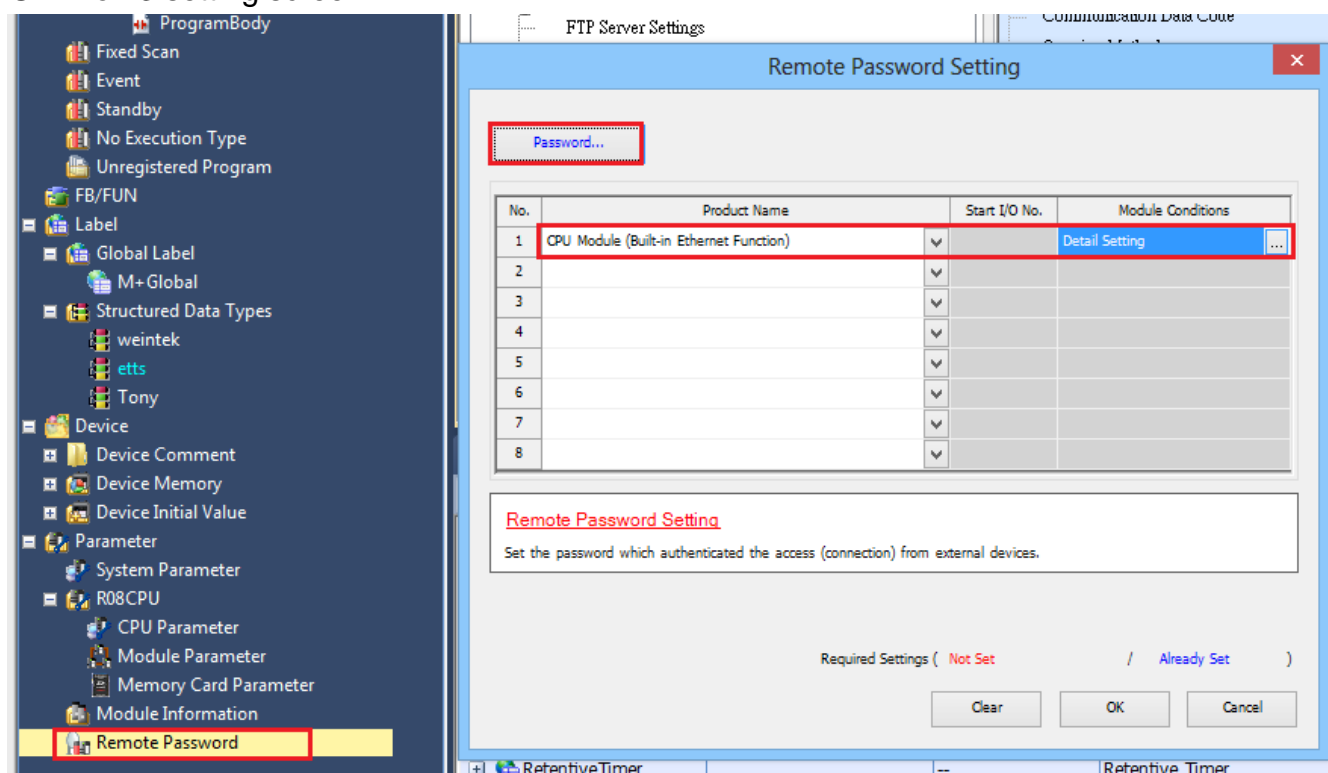


The 'Device Settings' dialog box is shown with the following sections:

- IP Address Settings:**
 - IP address: 192 . 168 . 1 . 111
 - Port no.: 4999
- Parameter Settings:**
 - Remote Password Setting:** (highlighted with a red box)
 - ☒ Enable
 - Password: 123456
 - Network number(0~999): 0
- Communication Settings:**
 - Timeout (sec): 1.0
 - Turn around delay (ms): 0
 - Resending commands: 0

Buttons: OK, Cancel

GX Work3 setting screen:



The GX Work3 interface shows the 'Remote Password Setting' dialog box. The left sidebar has 'Remote Password' highlighted. The dialog box contains:

- Password...** (highlighted with a red box)
- Table:**

No.	Product Name	Start I/O No.	Module Conditions
1	CPU Module (Built-in Ethernet Function)	▼	Detail Setting ...
2		▼	
3		▼	
4		▼	
5		▼	
6		▼	
7		▼	
8		▼	

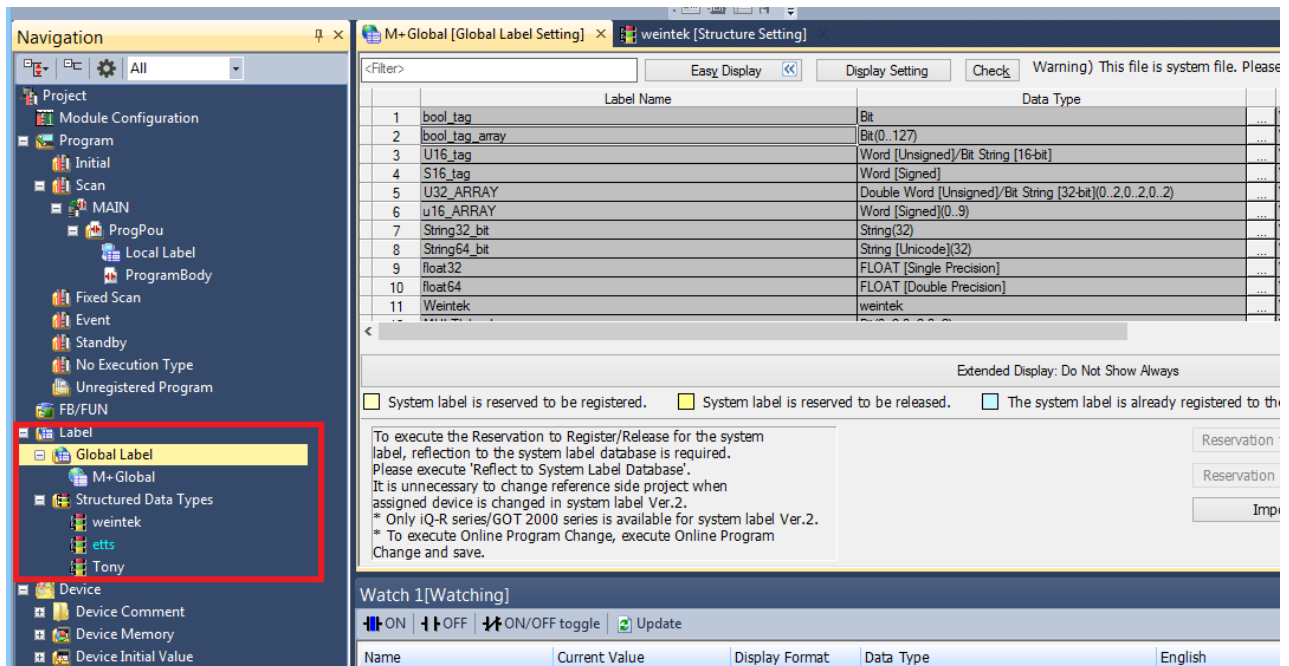
Remote Password Setting
Set the password which authenticated the access (connection) from external devices.

Required Settings (Not Set / Already Set)

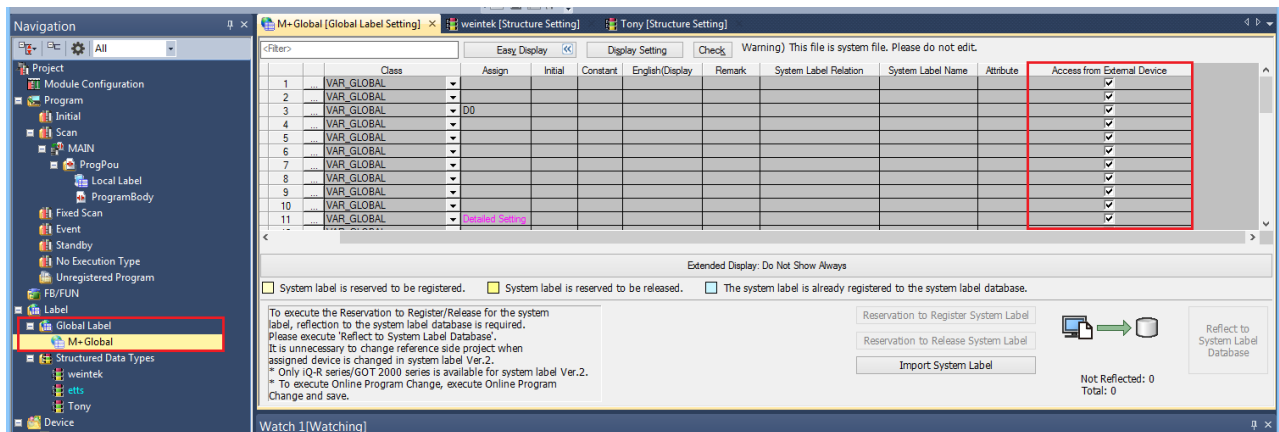
Buttons: Clear, OK, Cancel

Import Tags:

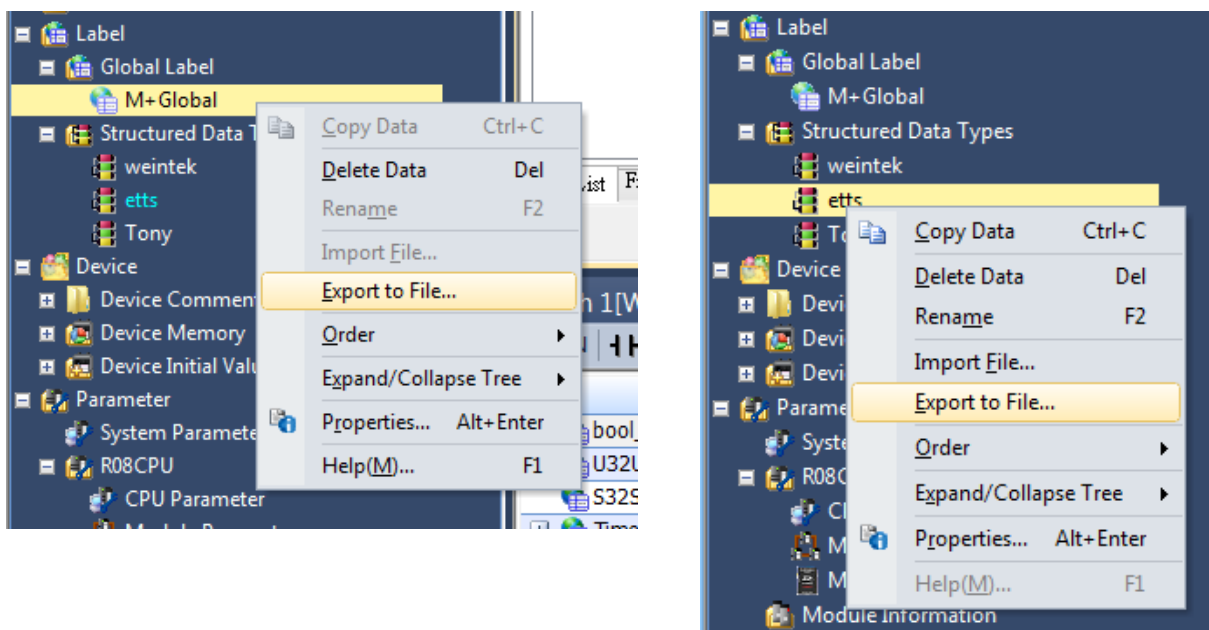
1. Create data in **Global Label** and **Structured Data Types**.



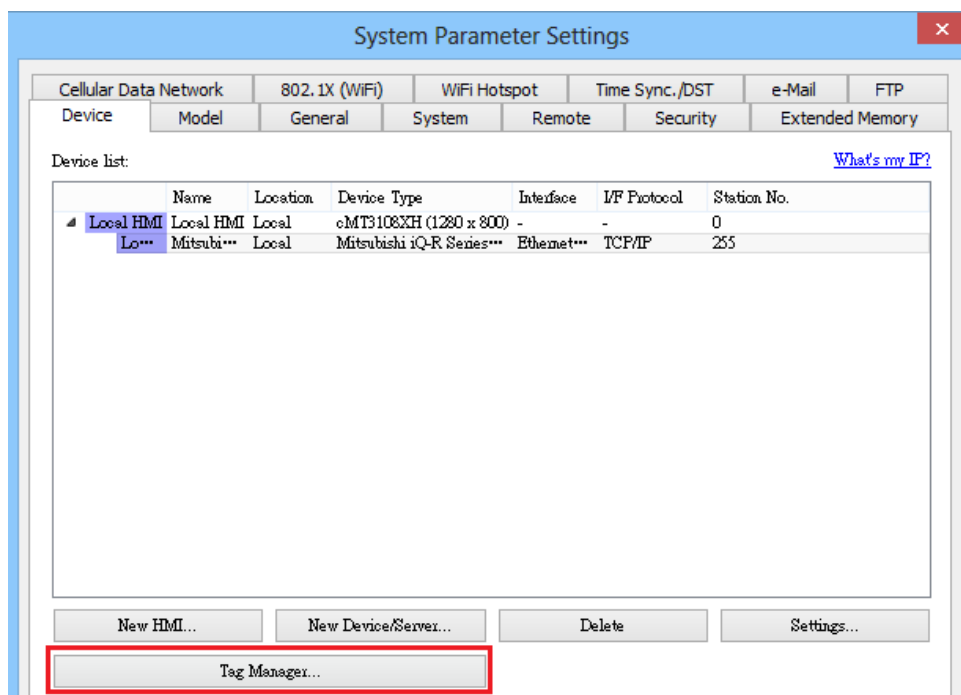
2. **Global Label** -> **Access from External Device** setting must be checked to be able to communicate with PLC.



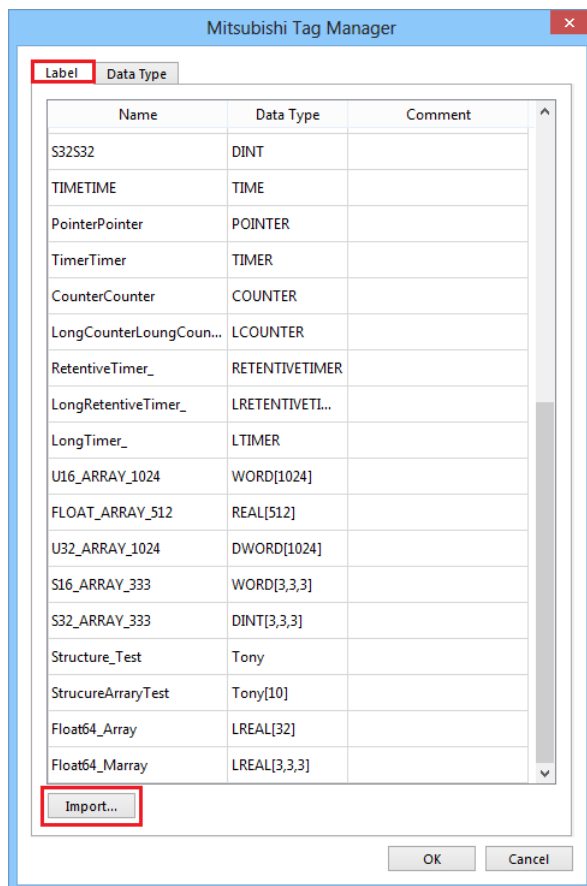
3. Global Label and Structured Data Types export label files separately.



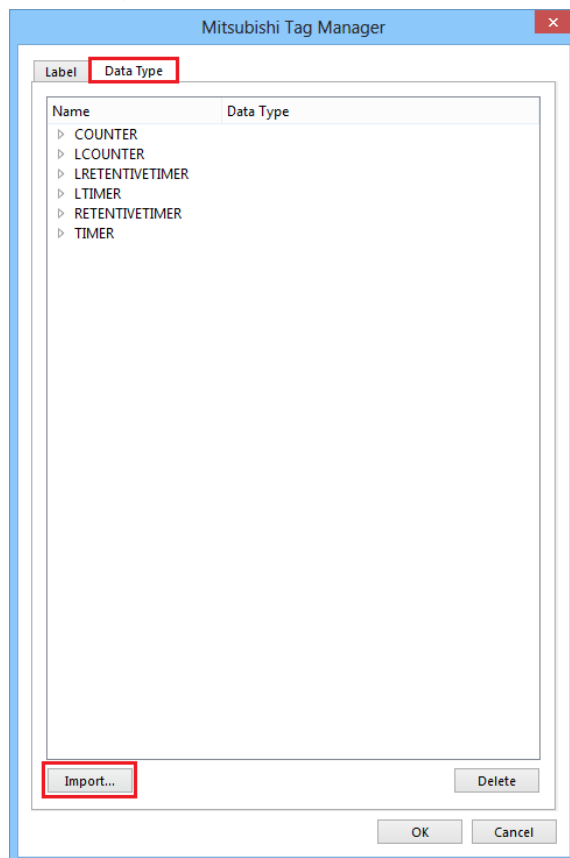
4. After adding a driver in EasyBuilder Pro, click **[Tag Manager]**.



5. Import Global Label. (single file)



6. Import Structure Data Type tags (import multiple files at the same time)



Support Device Type:

Data type	EasyBuilder data format	Memo
Bit	bit	
Word [Unsigned]	16-bit BCD, Hex, Binary, Unsigned	16-bit
Word [Signed]	16-bit BCD, Hex, Binary, Signed	16-bit
Double Word [Unsigned]	32-bit BCD, Hex, Binary, Unsigned	32-bit
Double Word [Signed]	32-bit BCD, Hex, Binary, Signed	32-bit
Float [Single Precision]	32-bit Float	32-bit
Float [Double Precision]	64-bit Double	64-bit
String (32)		*Note1
Timer		
Counter		
Long Counter		
Retentive Timer		
Long Retentive Timer		
Long Timer		

*Note1: String (32) arrays are not supported.

*Note2: Tag name length cannot exceed 30 characters.

*Note3: String[Unicode](32), Time and Pointer are not supported

Wiring Diagram:

Ethernet cable:

