

# Mitsubishi FX5U

Supported Series: Mitsubishi FX5U/FX5UC

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

## HMI Setting:

Parameters	Recommended	Options	Notes
PLC type	Mitsubishi FX5U		
PLC I/F	RS485 4w		
Baud rate	19200	9600 ~ 115200	
Data bits	8	7 , 8	
Parity	None	None/Odd/Even	
Stop bits	1	1 , 2	
PLC sta. no.	0	0 ~ 15	
Message pattern	1	1,4,5	Message Pattern *Note1
Network number	0	0 ~ 999	

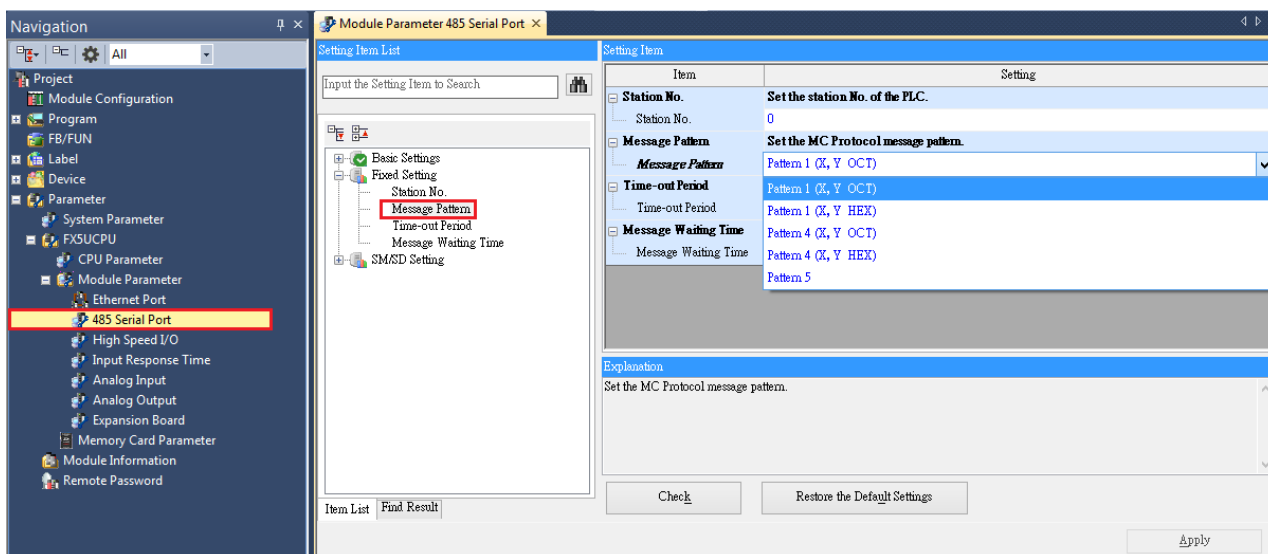
\*Note1:

Pattern1 (X,Y OCT) = ASCII Mode

Pattern4 (X,Y OCT) = ASCII Mode (CR,LF)

Pattern5 = Binary Mode

<b>Online simulator</b>	YES	<b>Extend address mode</b>	NO
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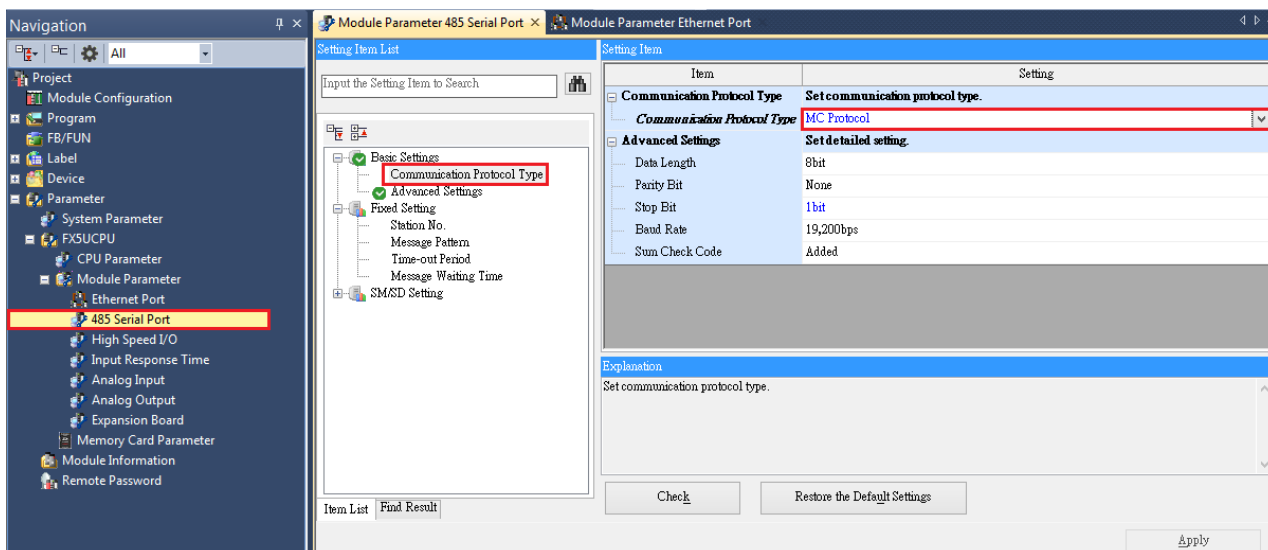
The screenshot shows the 'Module Parameter 485 Serial Port' configuration window. The 'Setting Item List' on the left shows 'Message Pattern' selected. The 'Setting Item' table on the right displays the following settings:

Item	Setting
Station No.	Set the station No. of the PLC. 0
Message Pattern	Set the MC Protocol message pattern. Pattern 1 (X, Y OCT)
Time-out Period	Pattern 1 (X, Y OCT) Time-out Period Pattern 1 (X, Y HEX)
Message Waiting Time	Pattern 4 (X, Y OCT) Message Waiting Time Pattern 4 (X, Y HEX) Pattern 5

The 'Explanation' field at the bottom contains the text: 'Set the MC Protocol message pattern.'

## PLC Setting:

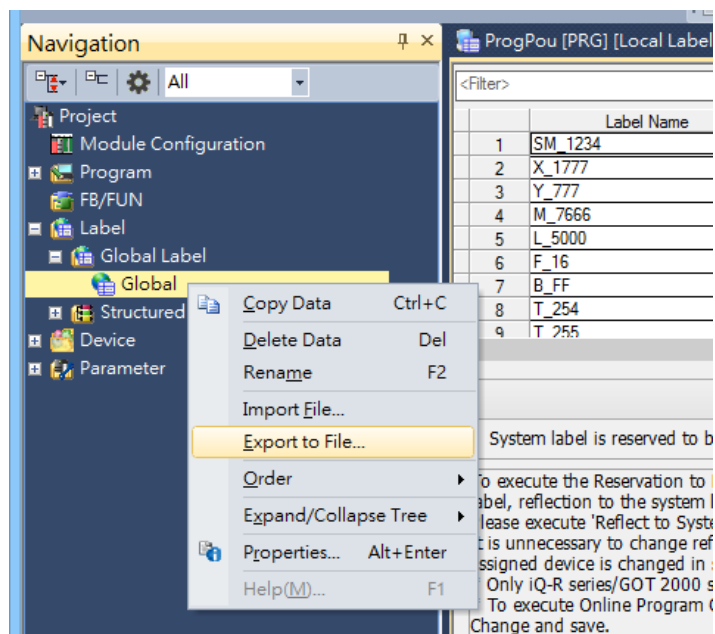
<b>Communication Protocol</b>	MC Protocol
<b>Sum Check Code</b>	Added



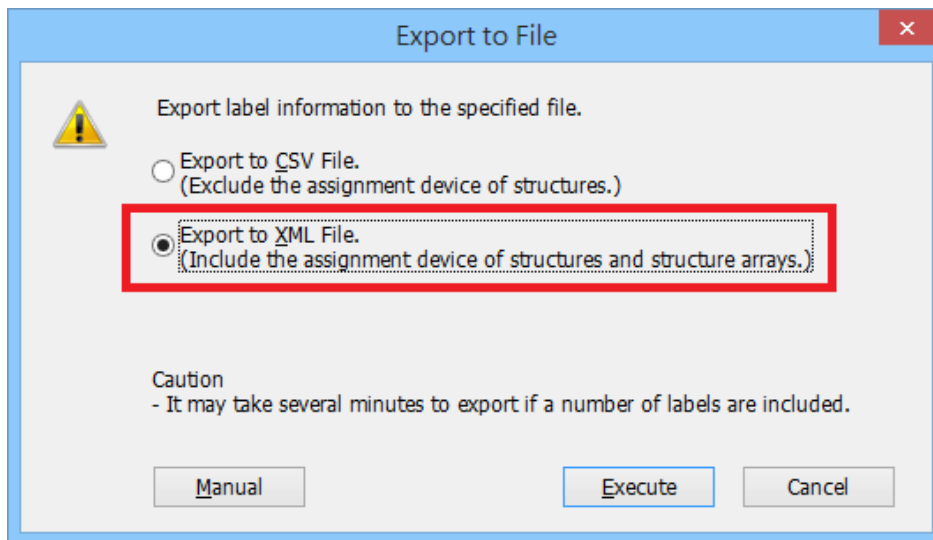
## Import Tags:

### GX Works3 Export Tags:

1. Project -> Label -> Global Label -> Global, right click on the mouse -> Export to File

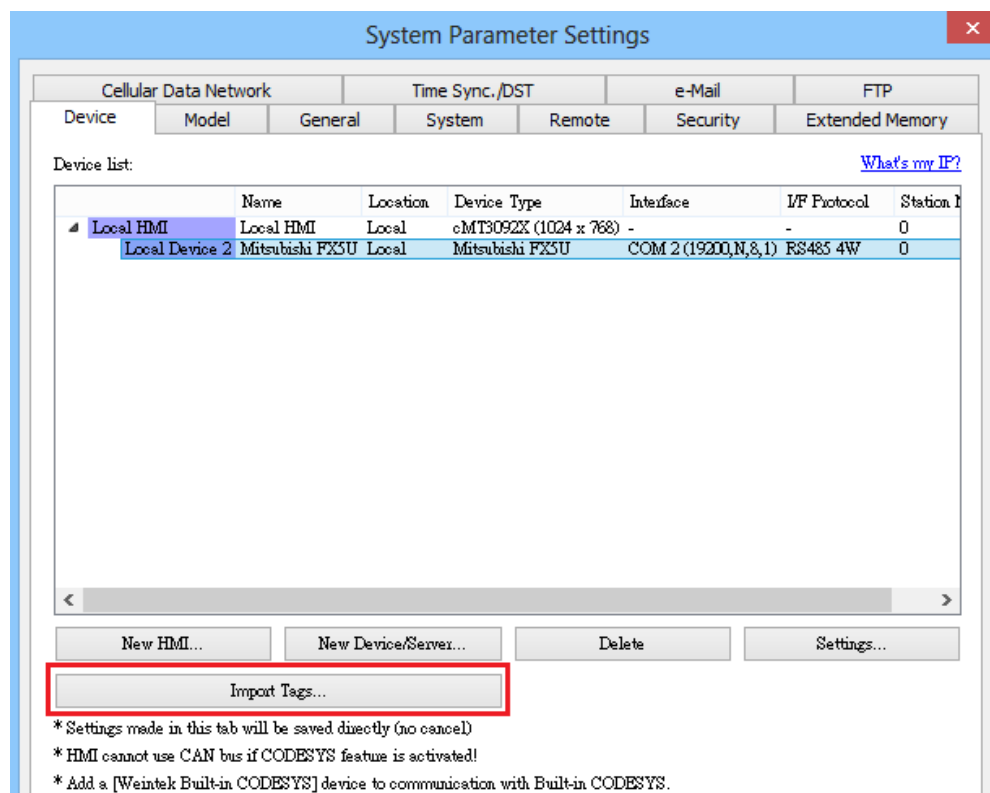


## 2. Export to XML File -> Excute.

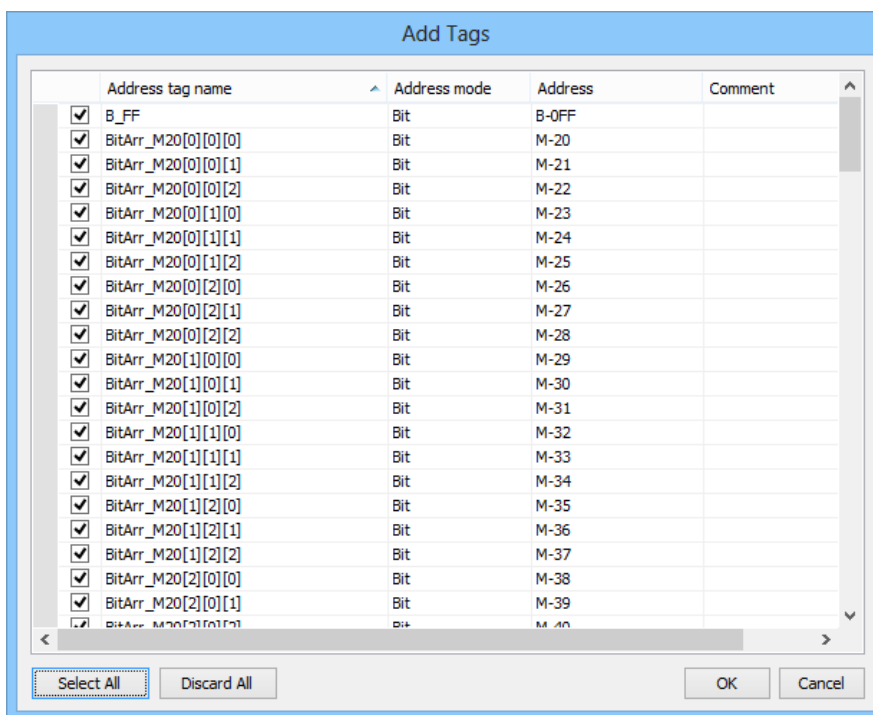


## EasyBuilder Pro Import Tags:

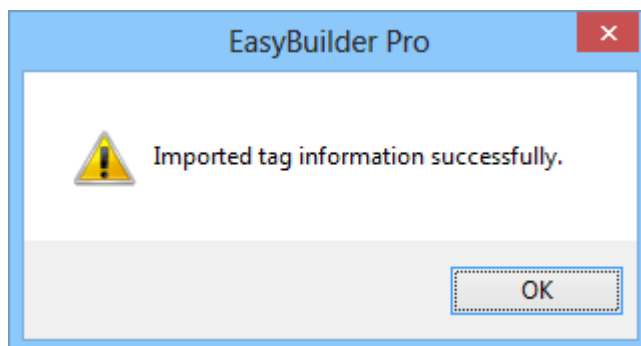
1. After setting the [System Parameters] and creating the driver, click [Import Tags].



2. Select the **.XML** file, then select the tag you want to import.



3. Imported tag information successfully.



### Limitations:

1. Structure in structure and array in structure are not supported.
2. If TN, CN, LCN, SN and other addresses are used in the structure, three members of **Contact**, **Coil**, and **Current Value** will be automatically generated
3. The String type will end with 0x00. If the length is set to 16 words, then a complete string will be 17 words in length.

## 4. Support data type list:

Data Type	Support
Bit	✓
Word [Unsigned] / Bit String [16-bit]	✓
Double Word [Unsigned] / Bit String [32-bit]	✓
Word [Signed]	✓
Double Word [Signed]	✓
FLOAT [Single Precision]	✓
Time	✓
String(32)	✓
Pointer	✗
Timer	✓
Counter	✓
Long Counter	✓
Retentive Timer	✓

**Device Address:**

Bit/Word	Device	Format	Range	Memo
B	LCS	DDDD	0 ~ 1023	Long counter Contact * <b>Note1</b>
B	LCC	DDDD	0 ~ 1023	Long counter Coil * <b>Note1</b>
B	SM	DDDD	0 ~ 9999	Special Relay
B	X	OOOO	0 ~ 1777	Input Relay
B	Y	OOOO	0 ~ 1777	Output Relay
B	M	DDDDD	0 ~ 32767	Internal Relay
B	L	DDDDD	0 ~ 32767	Latch Relay
B	F	DDDDD	0 ~ 32767	Annunciator
B	B	HHHH	0 ~ 7FFF	Link Relay
B	TS	DDDD	0 ~ 1023	Timer Contact
B	TC	DDDD	0 ~ 1023	Timer Coil
B	SS	DDDD	0 ~ 1023	Retentive Timer Contact
B	SC	DDDD	0 ~ 1023	Retentive Timer Coil
B	CS	DDDD	0 ~ 1023	Counter Contact
B	CC	DDDD	0 ~ 1023	Counter Coil
B	SB	HHHH	0 ~ 7FFF	Special Link Relay
B	S	DDDD	0 ~ 4095	Step relay
B	D_bit	DDDDh	0 ~ 7999F	Data Register bit
B	SD_bit	DDDDDh	0 ~ 11999F	Special register Bit
B	R_bit	DDDDDh	0 ~ 32767F	File Register Bit

Bit/Word	Device	Format	Range	Memo
B	SW_bit	HHHHh	0 ~ 7FFFF	Special Link Register Bit
B	W_bit	HHHHh	0 ~ 7FFFF	Link Register Bit
DW	LCN	DDDD	0 ~ 1023	Long counter Current Value <b>*Note1</b>
DW	LZ	D	0 ~ 1	Long Index Register
W	SD	DDDDD	0 ~ 11999	Special register
W	D	DDDD	0 ~ 7999	Data Register
W	R	DDDDD	0 ~ 32767	File Register
W	W	HHHH	0 ~ 7FFF	Link Register
W	TN	DDDD	0 ~ 1023	Timer Current value
W	SN	DDDD	0 ~ 1023	Retentive Timer Current value
W	CN	DDDD	0 ~ 1023	Counter Current value
W	SW	HHHH	0 ~ 7FFF	Special Link Register
W	Z	DD	0 ~ 19	Index Register

**\*Note1: ASCII mode does not support LCS, LCC, LCN**

## Wiring Diagram:

### RS-485 4W

The serial port pin assignments may vary between HMI models, please click the following link for more information.

