## 1. PLC Setting

### 1. Computer and PLC Connection

- 1) Connect to your PC and PLC to the Ethernet.
- Execute GX Works3, create new connection and select series FX5CPU. Model Type: FX5U.

New	<b>—</b>
Series	FX5CPU 🔻
Туре	🕮 FX5U 🔻
Mada	
Mode	¥
Program Language	S FBD/LD 🔹
	OK Cancel

**Figure 3.1 New Connection** 

3) Select Online => Current Connection Destination



**Figure 3.2 Current Connection Destination** 

 Click "Connection Test" Button, test if your PC has connected to PLC. As figure 3.3. If the connection goes down, please refer to the PLC manual.

,					
Specify Connect	ion Destination Connection	1		Σ	X
PC side I/F	S <u>erial</u> USB Board	st			
PLC side I/F	PLC GOT Module	l			
	IP Address/Host Name	Ethernet Port Direct Connection	PLC	C Mode FX5CPU	
Other Station Setting	No Specification	MELSOFT GX Works3	with the FX5UCPU.	Connection Channel List	
	Time Out (Sec.) 30			Connection Test	
Network Communication Route			確定	PLC Type FX30	
				System Image	
				ОК	
				Cancel	

**Connection Test** 

### 2. Ethernet Port Connection

- 1. Configure IP Address.
- Double Click Navigation => Parameter => Module Parameter => Ethernet Port. And the IP Setting Page will show up.
- Set IP Address Subnet Mask and Default Gateway.
- Double Click Detailed Setting and it will show the protocol setting page.

醋 MELSOFT GX Works3 C:\Users\joseph	n.chiu\Documents\03-07.gx3 - [Module Pa	rameter Ethernet Port]		
Project Edit Find/Replace Conv	ert View Online Debug Diagnosti	cs Tool Window Help		
i 🗅 📂 💾 🎒 🥥 💌	- i 🔏 🗈 📅 🗠 🗠 i 🖼 🖼 🖼 🖛	= 🙉 💦 🛤 🔣   🌇 🐘 🖉 .		🔽 🚦 💷 🖉 🖉 M
	🖁 🚟 🔽 🐡 🤣 🖏 📲 📮			
Navigation म ×	😫 Module Parameter Ethernet P 🗙			4 ۵ 🗸
□ <mark>ਞ</mark> + □⊏   <u>O</u> ptions	Setting Item List	Setting Item		
h Project	Input the Setting Item to Search	Item	Setting	
Module Configuration		😑 Own Node Settings		
🖬 🔚 Program		IP Address		
📷 FB/FUN	Basic Settings	IP Address	172.18.2.220 2	
n 🌕 Device	- T Application Settings	Default Gateworr	255.255.255.0	
🚍 🛃 Parameter		Communication Data Code	Binary	
🦸 System Parameter		External Device Configuration		
😑 🚉 FXSUCPU		External Device Configuration	<detailed setting=""> 3</detailed>	
💕 CPU Parameter				
I <sup>O</sup> L Ethernet Port				
485 Serial Por				
🛃 High Speed I/O				
🤣 Input Response Tirr				
🛃 Anslog Input		Explanation		
Anslog Output		Set the information of the own node such a	as IP address.	*
Memory Card Parame				
👸 Module Information				
Remote Password				-
		Chub	ton d. D. C. h C. Hinn	
	Item List Find Result	CHOCK K65	TOTE THE TREPORT PERMISS	
				Apply

#### Figure 3.4 IP Setting

2. Configure Protocol and the Comport: In Module List. Move the SLMP Connection Module from **1** to **2**, and enter the Port No.

8	🛱 Ethernet Configuration (Built-in Ethernet Port)									
÷ E	Ethernet Configuration Edit View Close with Discarding the Setting Close with Reflecting the Setting									
										Module List ×
										Ethernet Selection   Find Module   M 4 🕨
							PI	с	ensor/Devic	■別 ■ ■ ★ 哈×
		No.	Model Name	Communication Method	Protocol	Fixed Buffer Send/Receiv e Setting	IP Address	Port No.	MAC Address	Ethernet Device (General)
		30	Host Station				172.18.2.220			SLMP Connection Module
	i i	s 1	SLMP Connection Module	SLMP	TCP		172.18.2.220	1025		UDP Connection Module 1 -
		<b>s</b> 2	SLMP Connection Module	SLMP	TCP	-	2172.18.2.220	6000		Active Connection Module
							4			Unpassive Connection Module
										Eulipassive Connection Module -
	•		m						F.	
Г			Connection Connection No.1 No.2							
	动占 onnec	ted Count								
2			SLMP SLMP							
			역IMP)主控 역IMP)主控							[Outline] SLMP Connection Module
			记MILEN 记MILEN 设备 设备							[Specification] Use when specify open method by SLMP
			۰ III						Þ.	
ļ 0	utput	t								×

Figure 3.5 Module List Setting

### 3. RS-485 Serial Port Connection

1. Double Click Navigation => FX5UCPU => Module Parameter => 485 Serial Port. Then the RS-485 setting page will show up.

Basic Setting:

- Communication Protocol: Choose **MC Protocol**.
- Sum Check Code: Choose Added.
- Other Setting, Such as Data Length, Parity, Stop Bit, Baud Rate …, etc. should be identical with Edgelink COM port setting.



Figure 3.6 RS-485 Basic Setting

- 2. Fixed Setting:
- Set Station Number.
- Message Pattern: Choose **Pattern 4**.

醋 MELSOFT GX Works3 C:\Users\josepł	h.chiu\Documents\03-07.gx3 - [Module P	arameter 485 Serial Po	rt]	
Project Edit Find/Replace Conv	vert View Online Debug Diagnost	ics Tool Window	Help	
i 🗅 🖻 💾 🎒 🕢 👻	. i 🔏 🗈 🔁 🗠 🗠 📴 🖼 🚚 .	<b>= 🙇 👰 🗮 🔣 </b>	) 🕀 Q 🕂 📮 📮 📮 🐘 🕅 🕂	🚽 🚽 💷 🕑 🕑 Ma
1 🔁 🗃 😅 🚍 🛗 🖼 🚟 "	📲 🗳 🏷 🐲 🐨 🛊			
Navigation 무 ×	Parameter 485 Serial ×			4 ۵ 🗸
□ 🛃 🔍 🗠 🗠 🖓 🗠	Setting Item List	Setting Item		
Noject	Input the Setting Item to Search	Item	Setting	
Module Configuration		Station Number	Set the station number of the PLC.	
🖬 🚾 Program		Station Number	0	
	H- R Basic Settings	Message Pattern	Set the MC Protocol message pattern.	
🖬 🚰 Device	Fixed Setting	Time-out Period	Set time-out period	
😑 🛃 Parameter	⊞ 🚹 SMASD Setting	Time-out Period	10 ms	
🔮 System Parameter				
CPU Peremeter				
Module Parameter				
Ethernet Port				
🐠 485 Serial Port				
🛃 High Speed I/O				
Input Response Tim		Furthersting		
Analog Output		Set the station number o	f the PLC.	
🛃 Expansion Board				
📓 Memory Card Parame				
Module Information				
Remote Password				· ·
	Item List Find Result	Check	Restore the Default Settings	
				Apply

Mitsu-FX5U / MitsuFx

#### Figure 3.6 RS-485 Fixed Setting

3. Reboot the PLC after the setting is downloaded.

## 1. Edgelink Setting

## 2.1 Device Configuration

#### 1) Ethernet

🚰 General Information				
Inable				
Name:	NewDevice			
Device Type:	Mitsubishi MELSEC-Fx5 Series PLC (MC 🔻			
Device Model	Double Click to Select Device Template			
Unit Number:	1			
Tag Write Type:	Single Write 🔹			
Description:	A			
_	· · · · · · · · · · · · · · · · · · ·			
✓ Add device name as pr	refix to IO tags Bulk Copy			
A TCP/IP				
IP/Domain:	192.168.172.12			
Port Number:	6000			
Extention Properties				
Device Address (if other than Unit Number):				

- Device type: Select **MELSEC-Fx5**.
- Unit Number: Anything is OK. It is meaningless in Ethernet.
- 2) Serial

Name:	NewDevice
Device Type:	Mitsubishi MELSEC-Fx5 Series PLC (MC 🔻
Device Model	Double Click to Select Device Template
Unit Number:	0
Tag Write Type:	Single Write
Description:	A
	· · · · · · · · · · · · · · · · · · ·

- Device type: Select **MELSEC-Fx5**.
- Unit Number: Station number of PLC.

# 3.2 Add Tags

lew Tag				
🚰 Basic			Advanced	
Name:	NewTag		ScalingType:	No Scale
Data Type:	Analog	•	Formula:	
Conversion	Unsigned Integer	•		
Address:			Scale:	0
Start Bit:	0		Offset:	0
Length(bit):	16	Default Address Cor	nfiguration	Clamp to span low
Span High:	1000	Address Template:	X000	Clamp to span high Clamp to zero
Span Low:	0		2000	
Initial Value:	0.0	Address:	X000	_
Scan Rate:	1	ОК	Cancel	
Read Write:	Read/Write			
Description:		<u>.</u>		
		-		
			l	
				OK Close

We have address Template for customer to use. Below is the details.

Paramet	Туре	Description	
er			
CN	Analog	Counter Current	
D	Analog	Data Register	

Paramet	Туре	Description	
er			
R	Analog	File Register	
SD	Analog	Special Register	
SN	Analog	Retentive Timer Current	
SW	Analog	Special Link Register	
TN	Analog	Timer Current	
W	Analog	Link Register	
Z	Analog	Index Register	
ZR	Analog	File Register	
В	Digital	Link Relay	
СС	Digital	Counter Coil	
CS	Digital	Counter Contact	
DX	Digital	Direct Inout	
DY	Digital	Direct Output	
F	Digital	Annunciator	
L	Digital	Latch Relay	
М	Digital	Internal Relay	
S	Digital	Step Relay	
SB	Digital	Special Link Relay	
SC	Digital	Retentive TImer Coil	
SM	Digital	Special Relay	
SS	Digital	Rententive Timer Contact	
TC	Digital	Timer Coil	
TS	Digital	Timer Contact	
V	Digital	Edge Relay	
Х	Digital	Inout Relay	
Y	Digital	Output Relay	
TEXT	Text	TEXT	