

GE Fanuc Automation

Series 90-30/70

Computer Link Driver

Supported version

TOP Design Studio

V1.0 or higher



CONTENTS

We would like to thank our customers for using M2I's "Touch Operation Panel (M2I TOP) Series". Read this manual and familiarize yourself with the connection method and procedures of the "TOP and external device".

- 1. System configuration** [Page 2](#)

Describes the devices required for connection, the setting of each device, cables, and configurable systems.
- 2. External device selection** [Page 4](#)

Select a TOP model and an external device.
- 3. TOP communication setting** [Page 5](#)

Describes how to set the TOP communication.
- 4. External device setting** [Page 10](#)

Describes how to set up communication for external devices.
- 5. Cable table** [Page 18](#)


Describes the cable specifications required for connection.
- 6. Supported addresses** [Page 21](#)

Refer to this section to check the addresses which can communicate with an external device.

1. System configuration

The system configuration of TOP and "GE Fanuc Intelligent Platforms, Inc. – Series 90-30/70, VersaMax(Nano/Micro)" is as follows.

Series	CPU	Link I/F	Communication method	System setting	Cable
Series 90–30 PLC	IC693CPU311 IC693CPU313 IC693CPU321 IC693CPU323 IC693CPU331 IC693CPU340 IC693CPU341 IC693CPU350 IC693CPU351 IC693CPU352 IC693CPU360 IC693CPU363 IC693CPU364 IC693CPU374 IC693CPU311 IC693CPU313 IC693CPU323 IC693CPU331 IC693CPU340	SNP Serial Port on Power unit	RS-422 (4 wire)	3. TOP communication setting 4.1. External device setting 1	5.1. Cable table 1
	IC693CPU311 IC693CPU313 IC693CPU321 IC693CPU323 IC693CPU331 IC693CPU340 IC693CPU341 IC693CPU350 IC693CPU360 IC693CPU364	Built-in Serial Port	RS-422 (4 wire)	3. TOP communication setting 4.1. External device setting 1	5.1. Cable table 1
	IC693CPU311 IC693CPU340 IC693CPU341 IC693CPU350 IC693CPU360 IC693CPU364	IC693CMM311	RS-232C	3. TOP communication setting 4.3 External device setting 3	5.2. Cable table 2
	RS-422 (4 wire)				
	IC693CPU351 IC693CPU352 IC693CPU363	Built-in Serial Port	RS-422 (4 wire)	3. TOP communication setting 4.1. External device setting 1	5.1. Cable table 1
		Port 1 on CPU Unit	RS-232C	3. TOP communication setting 4.2. External device setting 2	5.1. Cable table 1
		Port 2 on CPU Unit	RS-422 (4 wire)		
		IC693CMM311		RS-232C	3. TOP communication setting 4.3 External device setting 3
	RS-422 (4 wire)				
	IC693CPU374	Port on Power unit	RS-422 (4 wire)	3. TOP communication setting 4.1. External device setting 1	5.1. Cable table 1
		IC693CMM311		RS-232C	3. TOP communication setting 4.3 External device setting 3
	RS-422 (4 wire)				

 Continued on the next page.

Series	CPU	Link I/F	Communication method	System setting	Cable
Series 90-70 PLC	IC697CPU731 IC697CPU771 IC697CPU772 IC697CPU780 IC697CPU781 IC697CPU782 IC697CPU788 IC697CPU789 IC697CPM790 IC697CPM915 IC697CPM925 IC697CPX722 IC697CPX782 IC697CPX928 IC697CPX935 IC697CGR772 IC697CGR935 IC697CSE784 IC697CSE924 IC697CSE925	SNP Serial Port on CPU unit	RS-422 (4 wire)	3. TOP communication setting 4.1. External device setting 1	5.1. Cable table 1
	IC697CPU731 IC697CPU732 IC697CPU771 IC697CPU772 IC697CPU781 IC697CPU782 IC697CPU788 IC697CPU789 IC697CPM790 IC697CPM914 IC697CPM915 IC697CPM924 IC697CPM925 IC697CPX772 IC697CPX782 IC697CPX928 IC697CPX935 IC697CGR772 IC697CGR935	IC697CMM711	RS-232C RS-422 (4 wire)	3. TOP communication setting 4.3 External device setting 3	5.2. Cable table 2
VersaMax (Nano/Micro) PLC	IC200□□□□□□ IC200N□□□□□□ IC200U□□□□□□	Port 1 on CPU unit Port 2 on CPU unit	RS-232C RS-422 (4 wire)	3. TOP communication setting 4.4. External device setting 4	5.3. Cable table 3

■ Connection configuration

- 1:1 (one TOP and one external device) connection – configuration which is possible in RS232C/422 communication.

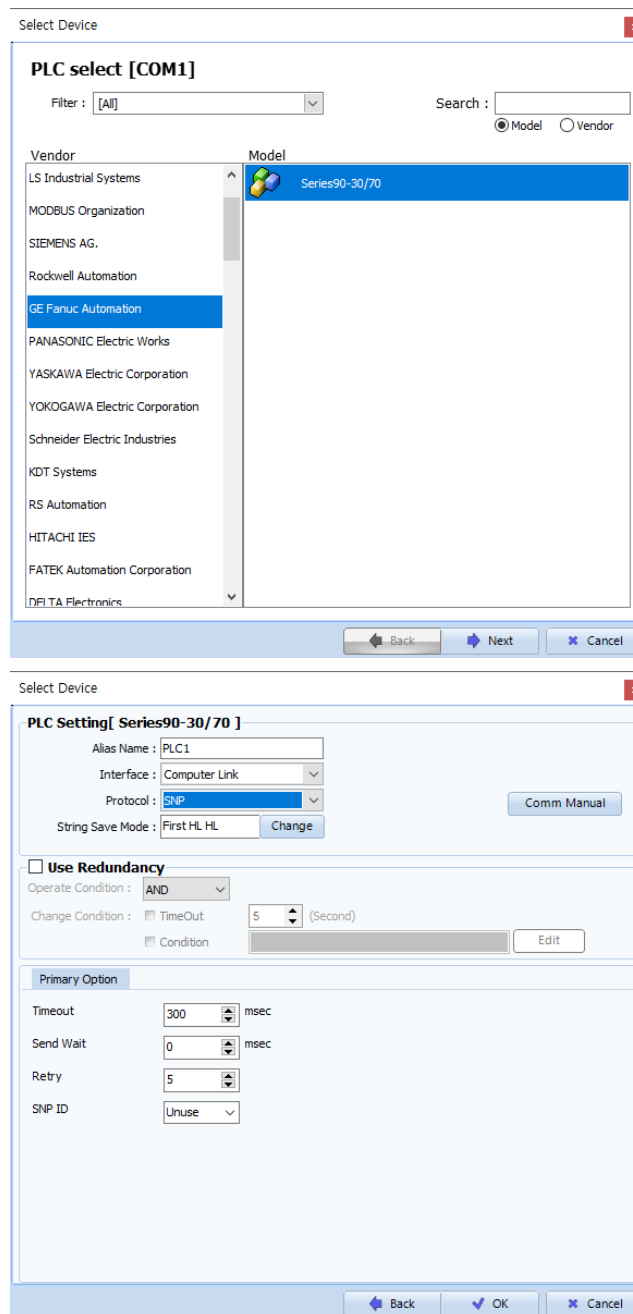


- 1:N (one TOP and multiple external devices) connection – configuration which is possible in RS422 communication.



2. External device selection

- Select a TOP model and a port, and then select an external device.



Settings		Contents									
TOP	Model	Check the TOP display and process to select the touch model.									
External device	Vendor	Select the vendor of the external device to be connected to TOP. Select "GE Fanuc Automation".									
	PLC	Select an external device to connect to TOP. <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Model</th> <th>Interface</th> <th>Protocol</th> </tr> </thead> <tbody> <tr> <td>Series 90-30/70</td> <td>Computer Link</td> <td>Set Users</td> </tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Supported Protocol</th> </tr> </thead> <tbody> <tr> <td>SNP</td> <td>SNP-X</td> </tr> </tbody> </table> Please check the system configuration in Chapter 1 to see if the external device you want to connect is a model whose system can be configured.	Model	Interface	Protocol	Series 90-30/70	Computer Link	Set Users	Supported Protocol		SNP
Model	Interface	Protocol									
Series 90-30/70	Computer Link	Set Users									
Supported Protocol											
SNP	SNP-X										

3. TOP communication setting

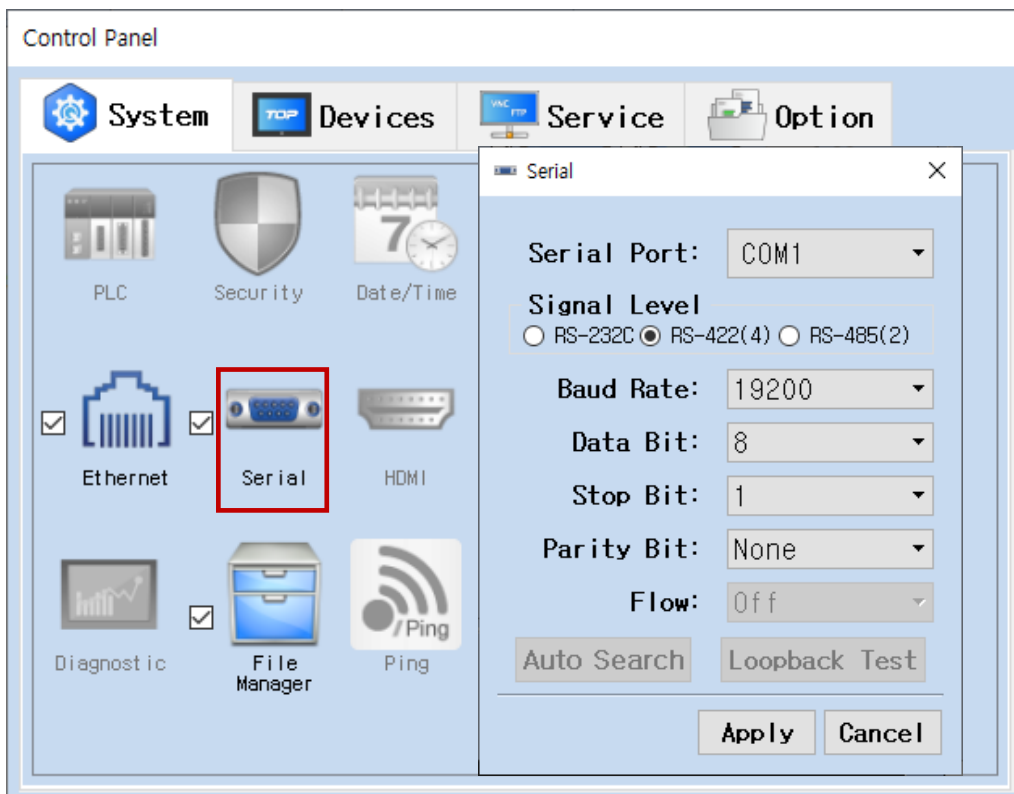
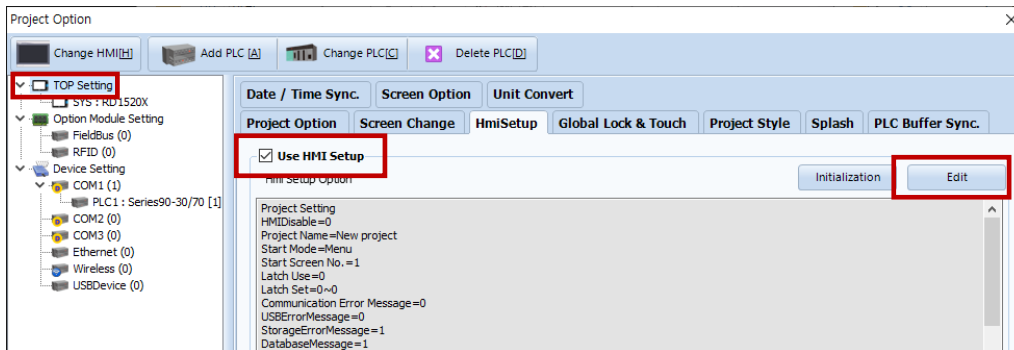
The communication can be set in TOP Design Studio or TOP main menu. The communication should be set in the same way as that of the external device.

3.1 Communication setting in TOP Design Studio

(1) Communication interface setting

■ [Project > Project properties > TOP settings] → [Project option > Check "Use HMI settings" > Edit > Serial]

– Set the TOP communication interface in TOP Design Studio.



Items	TOP		External device	Remarks
Signal Level (port)	RS-232C	RS-422	RS-232C RS-422	
Baud Rate	19200			
Data Bit	8			
Stop Bit	1			
Parity Bit	None.			

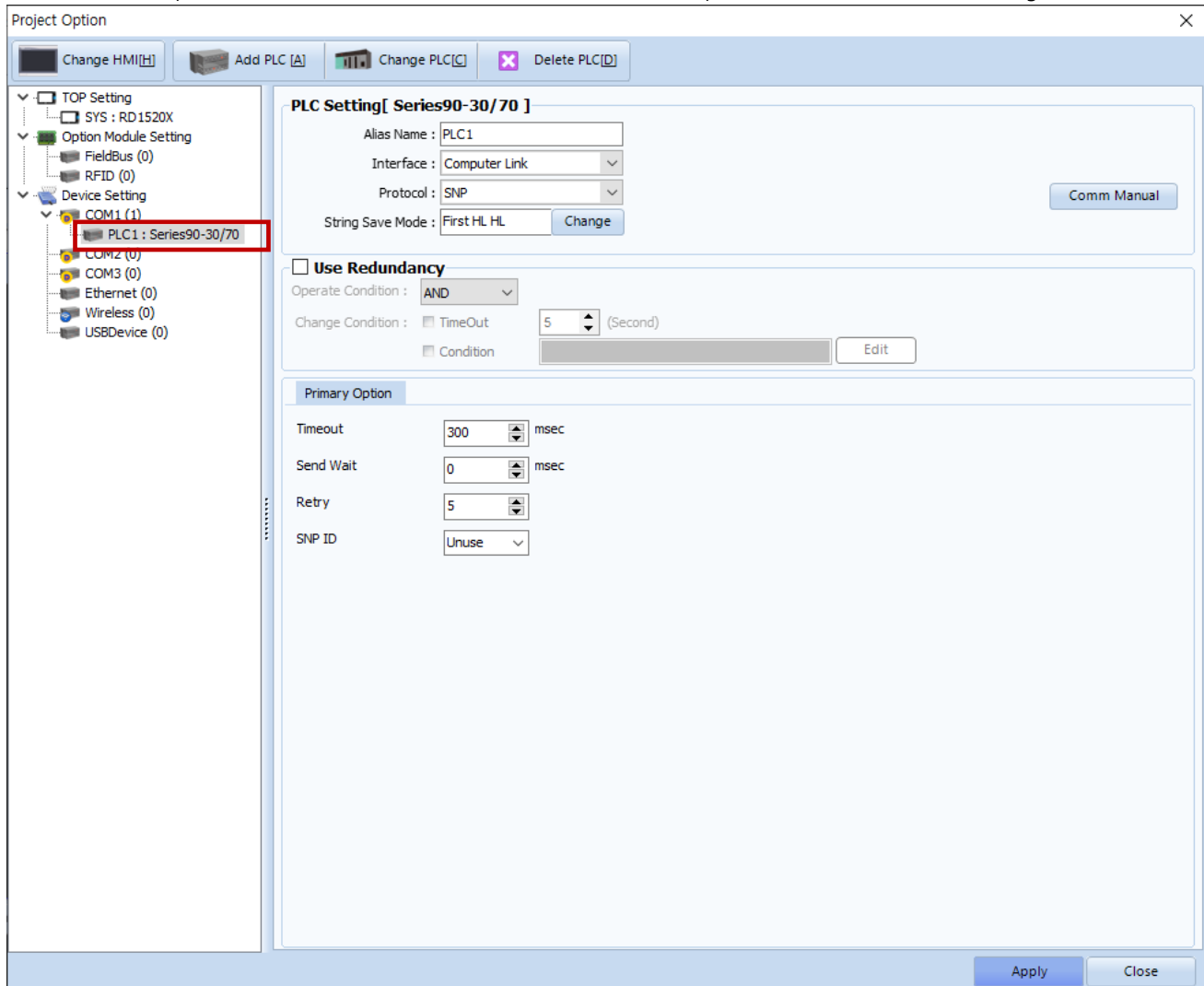
* The above settings are examples recommended by the company.

Items	Description
Signal Level	Select the serial communication method between the TOP and an external device.
Baud Rate	Select the serial communication speed between the TOP and an external device.
Data Bit	Select the serial communication data bit between the TOP and an external device.
Stop Bit	Select the serial communication stop bit between the TOP and an external device.
Parity Bit	Select the serial communication parity bit check method between the TOP and an external device.

(2) Communication option setting

■ [Project > Project properties > PLC settings > COM > "PLC1 : Series90-30/70"]

– Set the options of the communication driver of Series90-30/70 Computer Link (SNP/SNP-X) in TOP Design Studio.

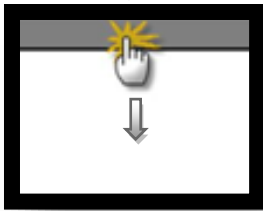


Items	Settings	Remarks
Interface	Select "Computer Link".	Refer to "2. External device selection".
Protocol	Select the serial communication protocol between the TOP and an external device.	
TimeOut (ms)	Set the time for the TOP to wait for a response from an external device.	
SendWait (ms)	Set the waiting time between TOP's receiving a response from an external device and sending the next command request.	
SNP ID	Enter SNP ID for external device.	

3.2. Communication setting in TOP

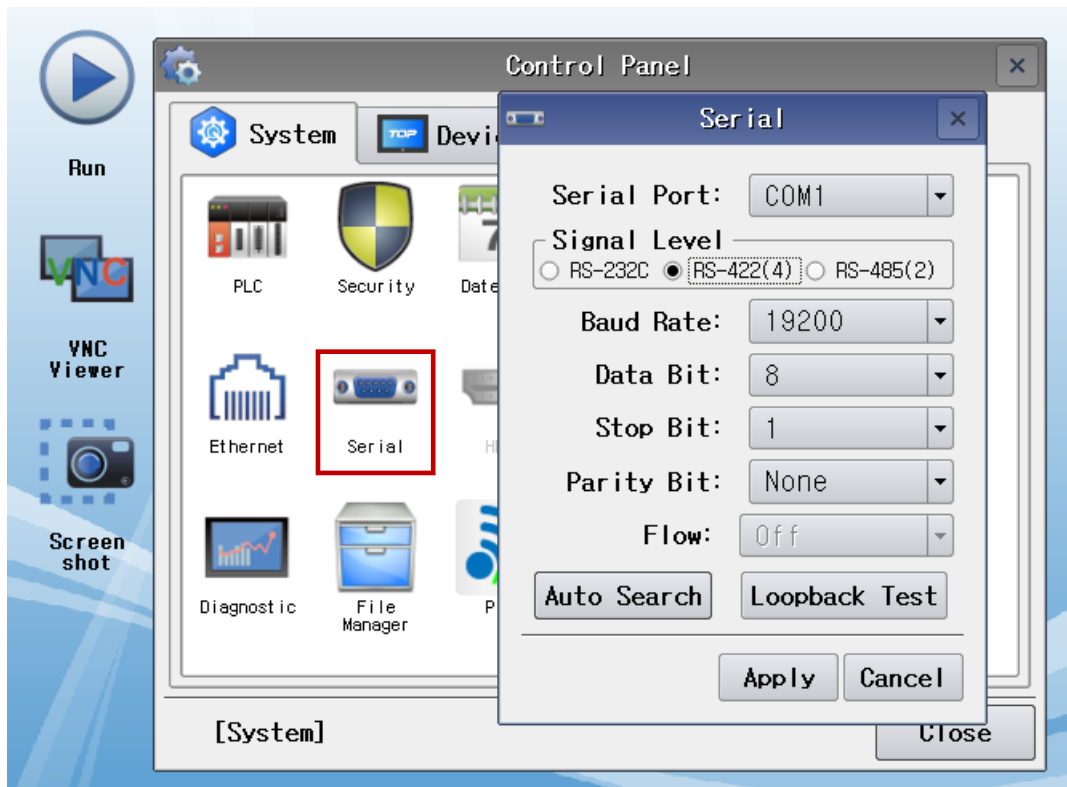
* This is a setting method when "Use HMI Setup" in the setting items in "3.1 TOP Design Studio" is not checked.

- Touch the top of the TOP screen and drag it down. Touch "EXIT" in the pop-up window to go to the main screen.



(1) Communication interface setting

- [Main screen > Control panel > Serial]



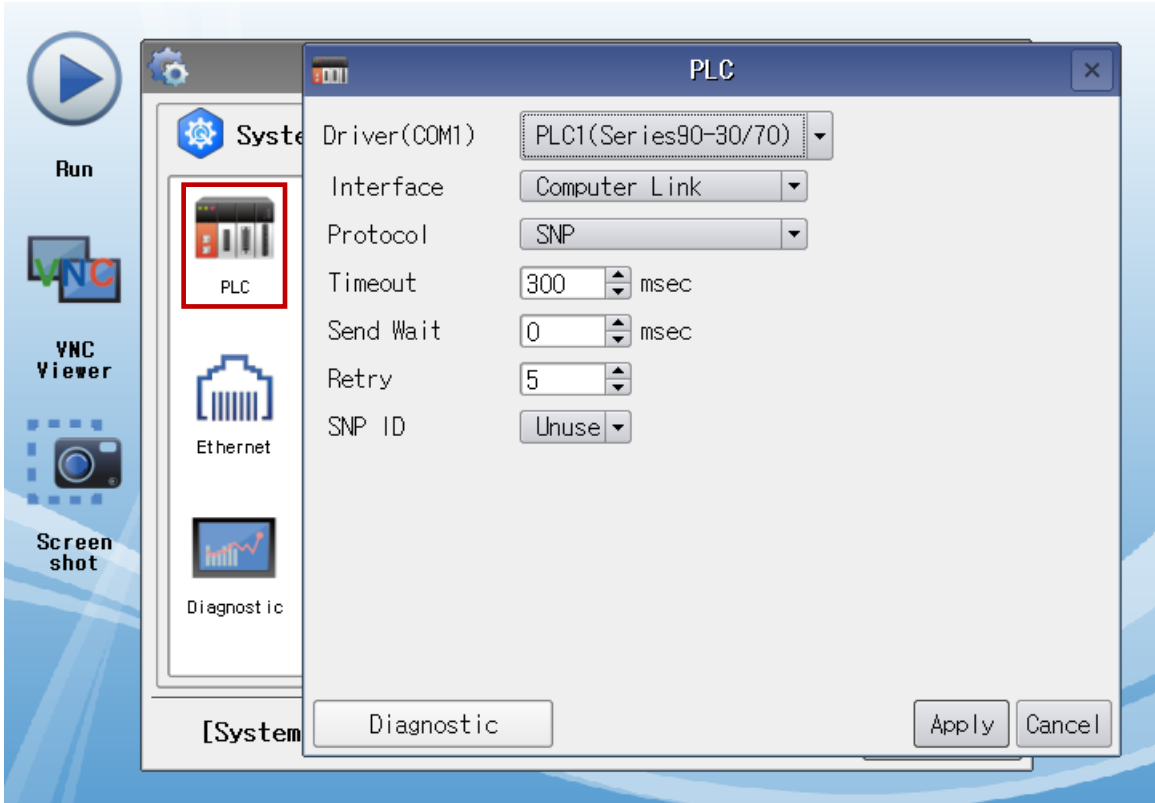
Items	TOP		External device	Remarks
Signal Level (port)	RS-232C	RS-422	RS-232C RS-422	
Baud Rate	19200			
Data Bit	8			
Stop Bit	1			
Parity Bit	None.			

* The above settings are setting examples recommended by the company.

Items	Description
Signal Level	Select the serial communication method between the TOP and an external device.
Baud Rate	Select the serial communication speed between the TOP and an external device.
Data Bit	Select the serial communication data bit between the TOP and an external device.
Stop Bit	Select the serial communication stop bit between the TOP and an external device.
Parity Bit	Select the serial communication parity bit check method between the TOP and an external device.

(2) Communication option setting

■ [Main screen > Control panel > PLC]



Items	Settings	Remarks
Interface	Select "Computer Link".	Refer to "2. External device selection".
Protocol	Select the serial communication protocol between the TOP and an external device.	
TimeOut (ms)	Set the time for the TOP to wait for a response from an external device.	
SendWait (ms)	Set the waiting time between TOP's receiving a response from an external device and sending the next command request.	
SNP ID	Enter SNP ID for external device. (Configure with TOP Design Studio)	

3.3 Communication diagnostics

- Check the interface setting status between the TOP and an external device.
 - Touch the top of the TOP screen and drag it down. Touch "EXIT" in the pop-up window to go to the main screen.
 - Check if the COM port settings you want to use in [Control Panel > Serial] are the same as those of the external device.

- Diagnosis of whether the port communication is normal or not
 - Touch "Communication diagnostics" in [Control Panel > PLC].
 - The Diagnostics dialog box pops up on the screen and determines the diagnostic status.

OK	Communication setting normal
Time Out Error	Communication setting abnormal - Check the cable, TOP, and external device setting status. (Reference: Communication diagnostics sheet)

- Communication diagnostics sheet
 - If there is a problem with the communication connection with an external terminal, please check the settings in the sheet below.

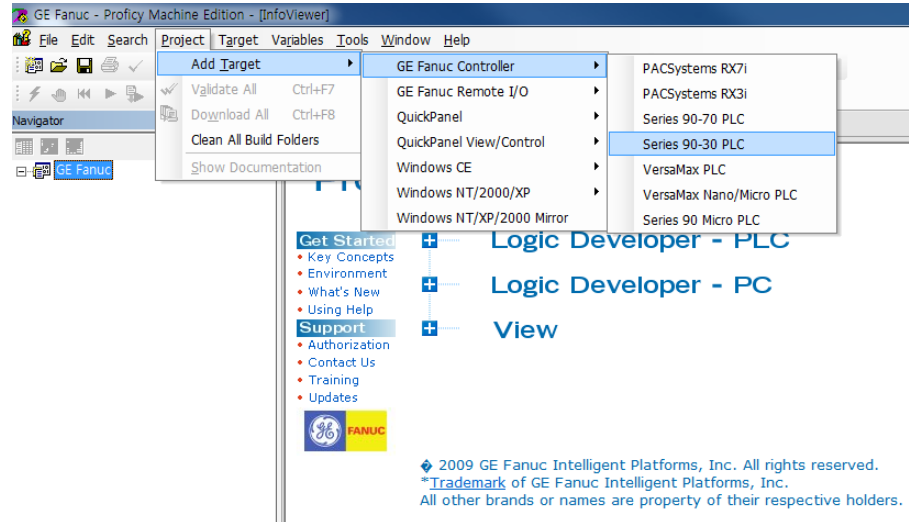
Items	Contents	Check		Remarks	
System configuration	How to connect the system	OK	NG	1. System configuration	
	Connection cable name	OK	NG		
TOP	Version information	OK	NG	2. External device selection 3. Communication setting	
	Port in use	OK	NG		
	Driver name	OK	NG		
	Other detailed settings	OK	NG		
	Relative prefix	Project setting	OK		NG
		Communication diagnostics	OK		NG
	Serial Parameter	Transmission Speed	OK		NG
Data Bit		OK	NG		
Stop Bit		OK	NG		
Parity Bit		OK	NG		
External device	CPU name	OK	NG	4. External device setting	
	Communication port name (module name)	OK	NG		
	Protocol (mode)	OK	NG		
	Setup Prefix	OK	NG		
	Other detailed settings	OK	NG		
	Serial Parameter	Transmission Speed	OK		NG
		Data Bit	OK		NG
		Stop Bit	OK		NG
Parity Bit		OK	NG		
Check address range	OK	NG	6. Supported addresses (For details, please refer to the PLC vendor's manual.)		

4. External device setting

4.1 External device setting 1 (Port on Power Unit, Built in Serial Port of Series 90-30/70)

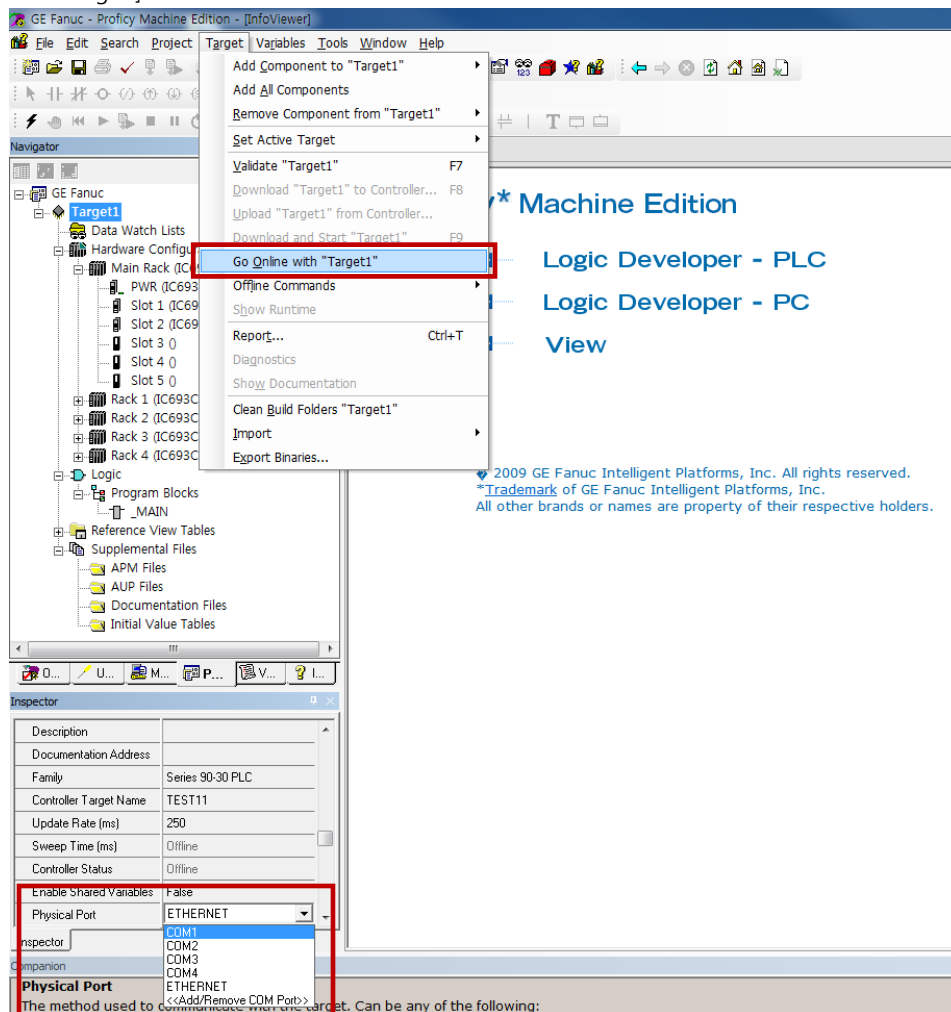
Use "90-30/70 Series" Ladder Software "CIMPLICITY Machine Edition" to set as follows. Reboot the external device after downloading the settings. For more detailed setting method than described in this example, refer to PLC user manual.

Step 1. Add the PLC Series you want to use as "Target" through the "[Project] – [Add Target] – [GE Fanuc Controller]" path of the Tool Bar.

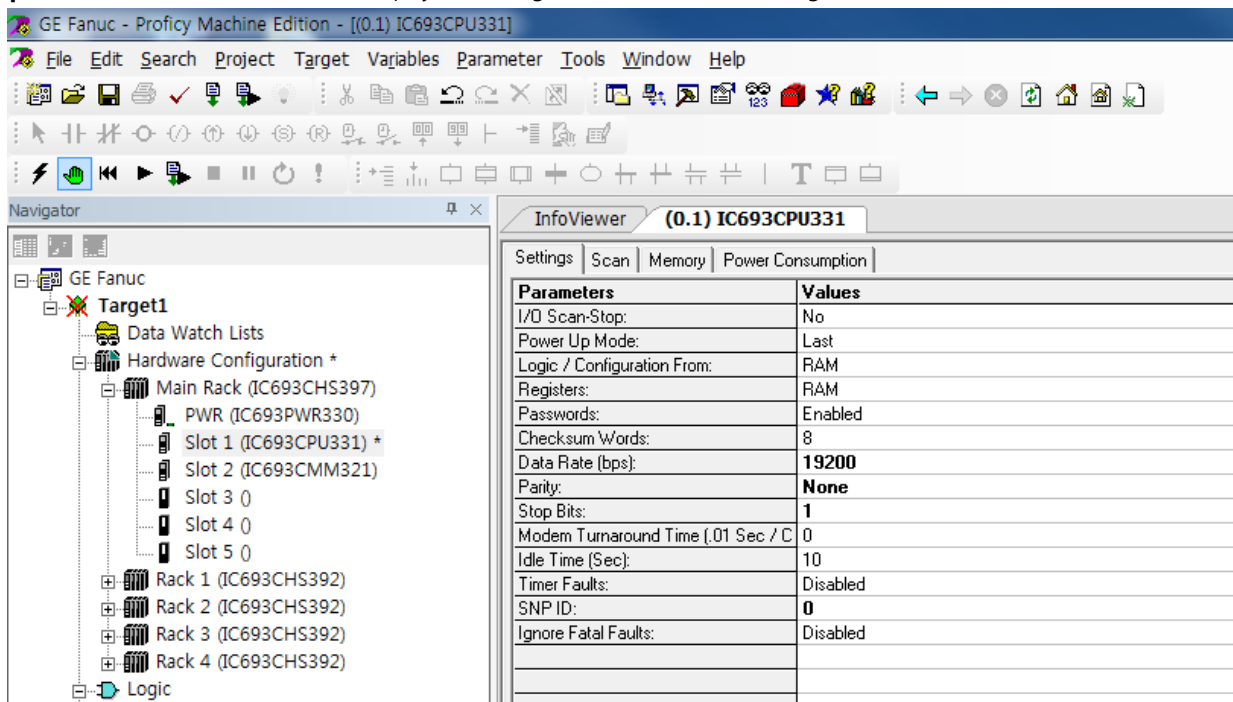


Step 2. Add the "Power" and "CPU Module" to the "[Hardware Configuration] – [Main Rack]" path.

Step 3. Select the communication method between PC and PLC in the [Properties] of the "Target", and then execute [Target] – [Go Online with "Target"] in the Tool Bar to connect to PLC.



Step 3. Double-click "CPU Module" to display the setting window, and in the [Settings] of the window, set as follows.



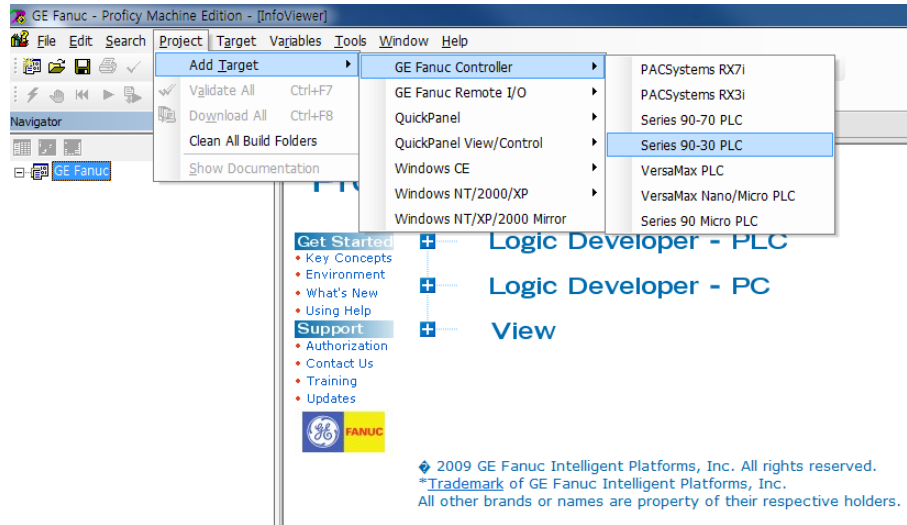
Items	Contents	Settings	Remarks
Data Rate[bps]	Set the serial communication speed of an external device.	19200	
Parity	Set the serial communication parity bit of an external device.	None	
Stop Bits	Set the serial communication stop bit of an external device.	1	
SNP ID	Set the SNP ID of the external device.	0	

Step 4. Execute [Target] – [Download "Target" to Controller...] in the Tool Bar to download the settings to PLC.

4.2 External device setting 2 (Port 1/2 on CPU Unit of Series 90-30/70)

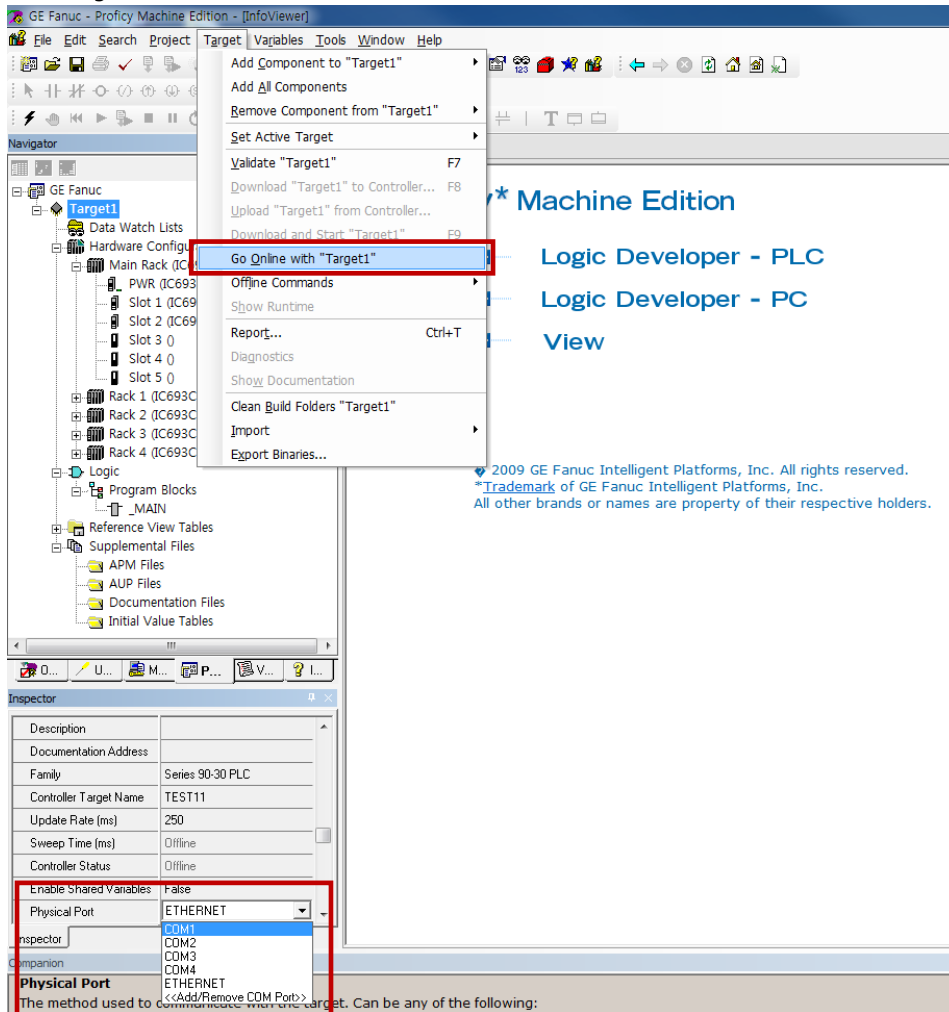
Use "90-30/70 Series" Ladder Software "CIMPLICITY Machine Edition" to set as follows. Reboot the external device after downloading the settings. For more detailed setting method than described in this example, refer to PLC user manual.

Step 1. Add the PLC Series you want to use as "Target" through the "[Project] – [Add Target] – [GE Fanuc Controller]" path of the Tool Bar.

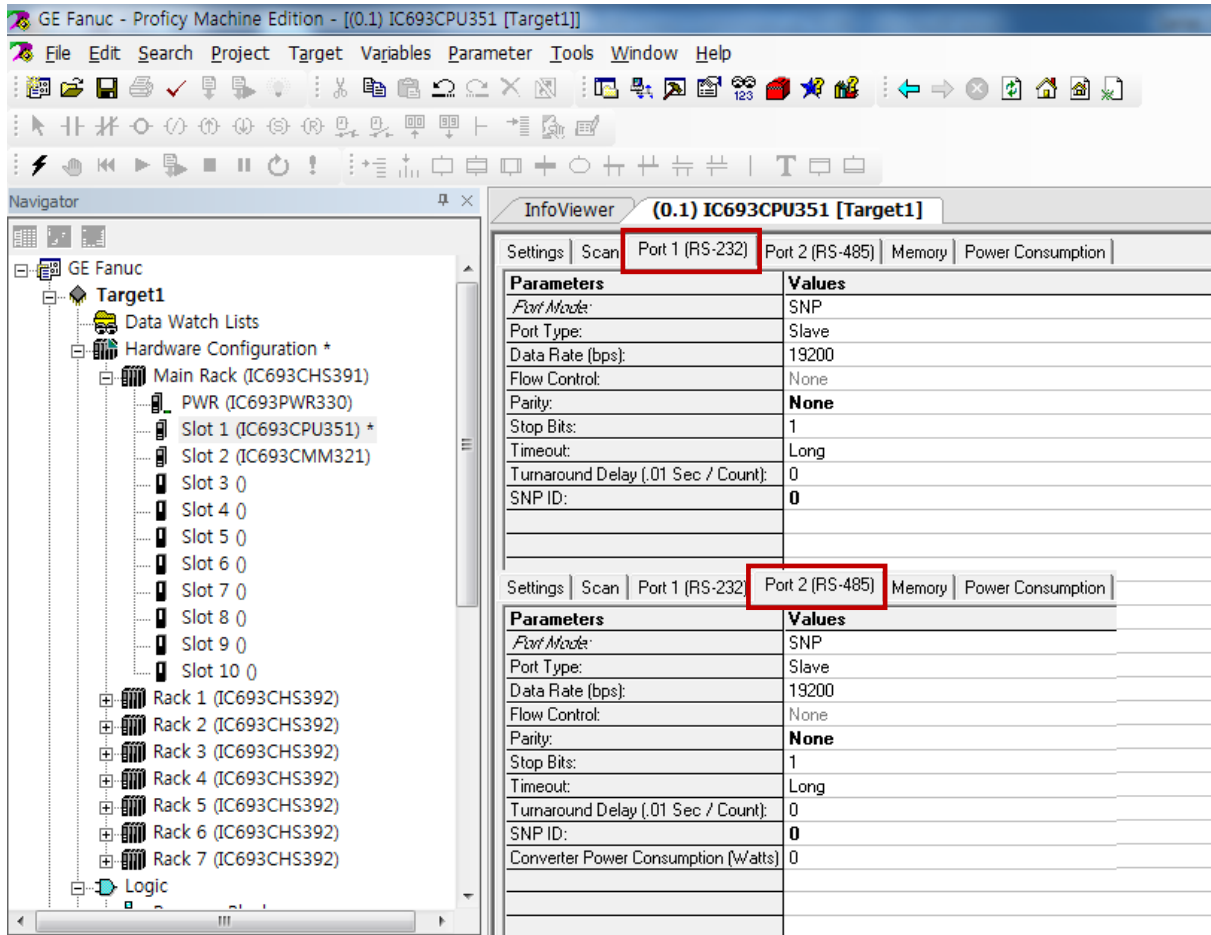


Step 2. Add the "Power" and "CPU Module" to the "[Hardware Configuration] – [Main Rack]" path.

Step 3. Select the communication method between PC and PLC in the [Properties] of the "Target", and then execute [Target] – [Go Online with "Target"] in the Tool Bar to connect to PLC.



Step 3. Double-click "CPU Module" to display the setting window, and in the [Port1 (RS-232)] or [Port2 (RS-485)] tab of the window, set as follows.



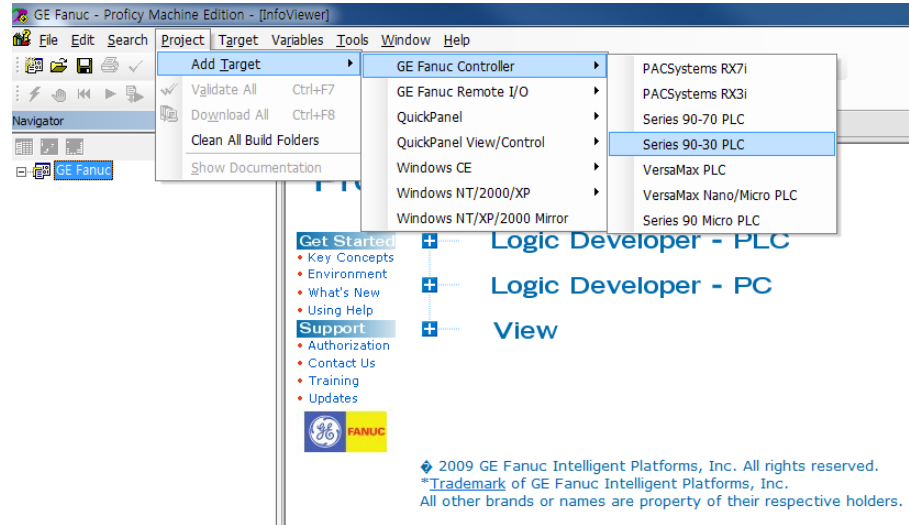
Items	Contents	Settings	Remarks
Port Mode	Set the serial communication protocol of the corresponding port.	SNP	Fixed
Port Type	Set the serial communication mode of the corresponding port.	Slave	Fixed
Data Rate[bps]	Set the serial communication speed of an external device.	19200	Set Users
Parity	Set the serial communication parity bit of an external device.	None	
Stop Bits	Set the serial communication stop bit of an external device.	1	
SNP ID	Set the SNP ID of the external device.	0	

Step 4. Execute [Target] – [Download "Target" to Controller...] in the Tool Bar to download the settings to PLC.

4.3 External device setting 3 (IC693CMM311, IC697CMM711)

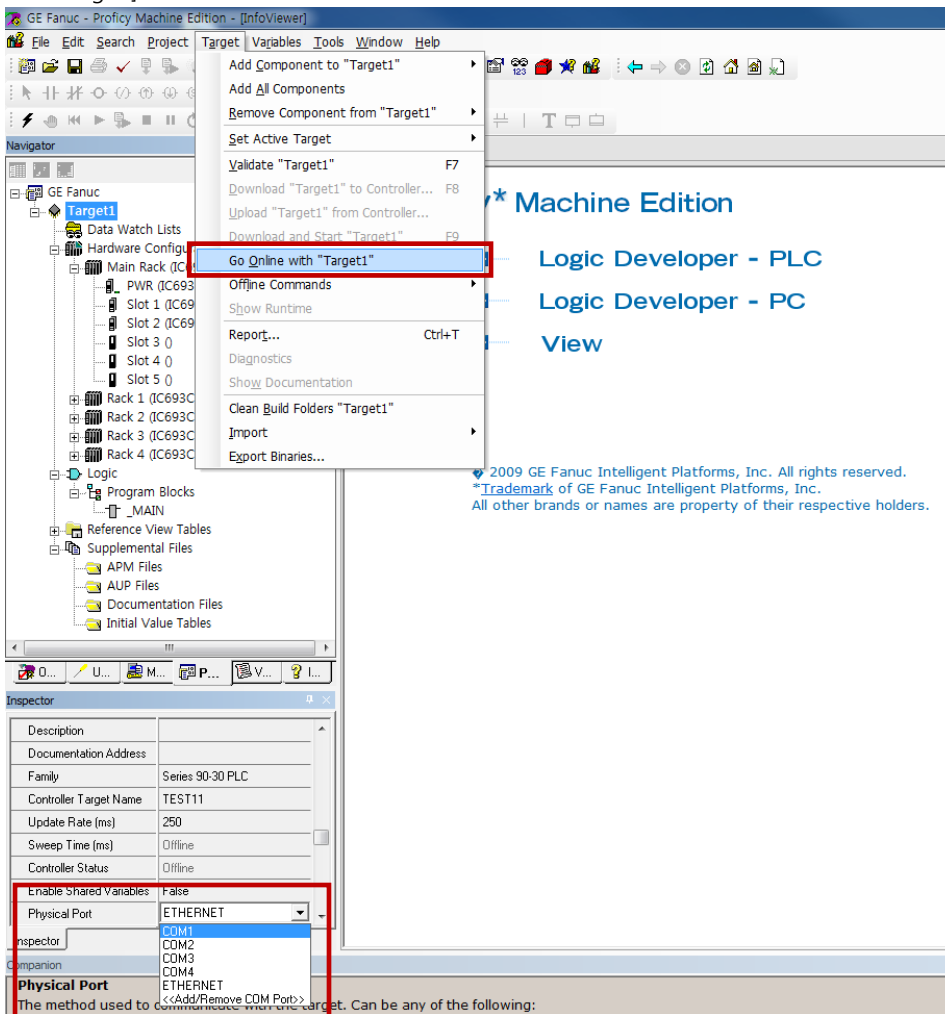
Use "90-30/70 Series" Ladder Software "CIMPPLICITY Machine Edition" to set as follows. Reboot the external device after downloading the settings. For more detailed setting method than described in this example, refer to PLC user manual.

Step 1. Add the PLC Series you want to use as "Target" through the "[Project] – [Add Target] – [GE Fanuc Controller]" path of the Tool Bar.

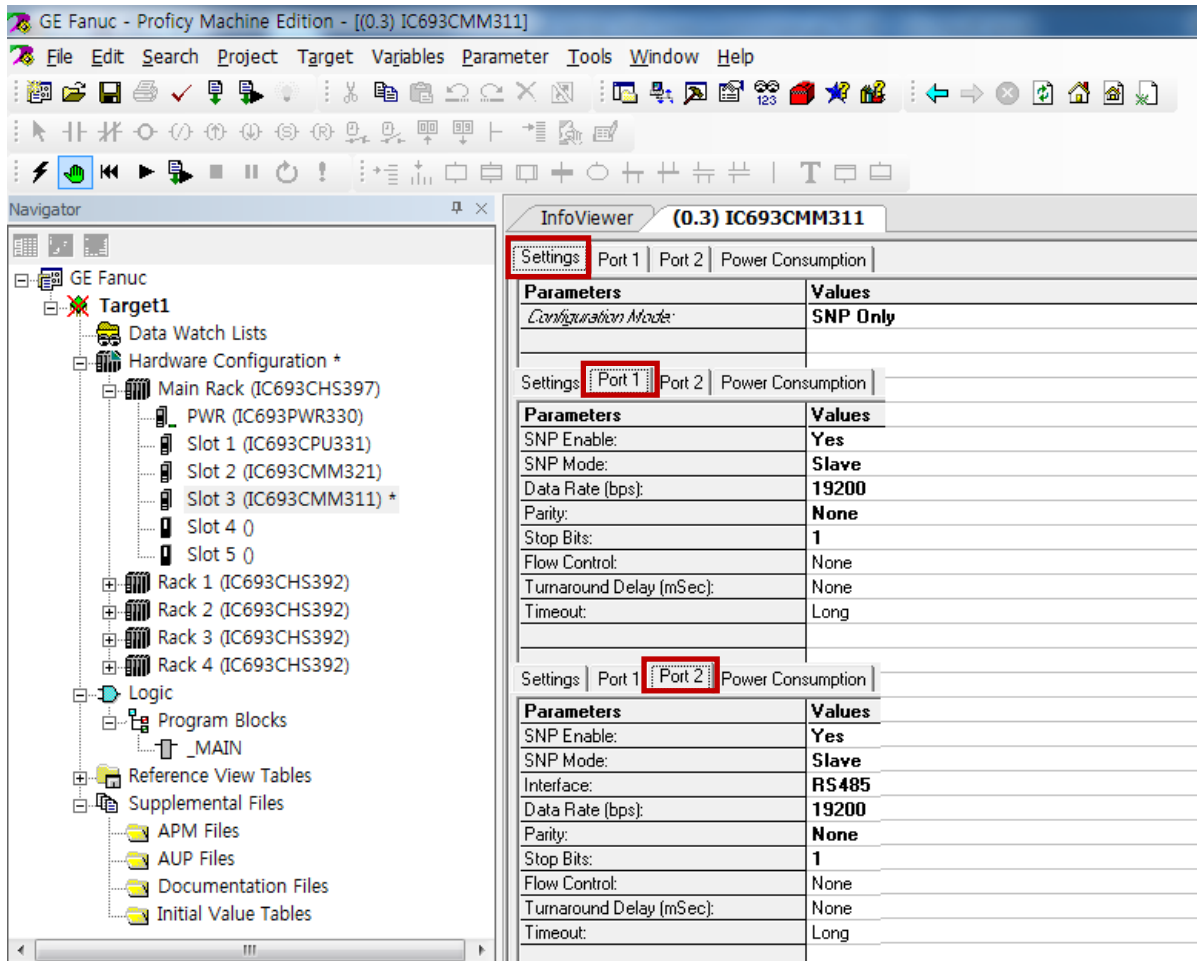


Step 2. Add the "Power", "CPU Module", and "link I/F Module" to the "[Hardware Configuration] – [Main Rack]" path.

Step 3. Select the communication method between PC and PLC in the [Properties] of the "Target", and then execute [Target] – [Go Online with "Target"] in the Tool Bar to connect to PLC.



Step 3. Double-click “link I/F Module” to display the setting window, and in the [Port1] or [Port2] tab of the window, set as follows.



Setting items	Contents	Settings	Remarks
Configuration Mode	Set the serial communication protocol of the Link I/F Module.	SNP Only	Fixed

Port 1 item	Contents	Settings	Remarks
SNP Enable	Set whether to communicate with SNP.	Yes	Fixed
SNP Mode	Set the SNP communication mode.	Slave	Fixed
Data Rate (bps)	Set the serial communication speed of Link I/F Module.	19200	
Parity	Set the serial parity bit of Link I/F Module.	None	
Stop Bit	Set the serial stop bit of Link I/F Module.	1	

Port 2 item	Contents	Settings	Remarks
SNP Enable	Set whether to communicate with SNP.	Yes	Fixed
SNP Mode	Set the SNP communication mode.	Slave	Fixed
Data Rate (bps)	Set the serial communication speed of Link I/F Module.	19200	
Interface	Set the serial communication interface of Link I/F Module.	RS485	
Parity	Set the serial parity bit of Link I/F Module.	None	
Stop Bit	Set the serial stop bit of Link I/F Module.	1	

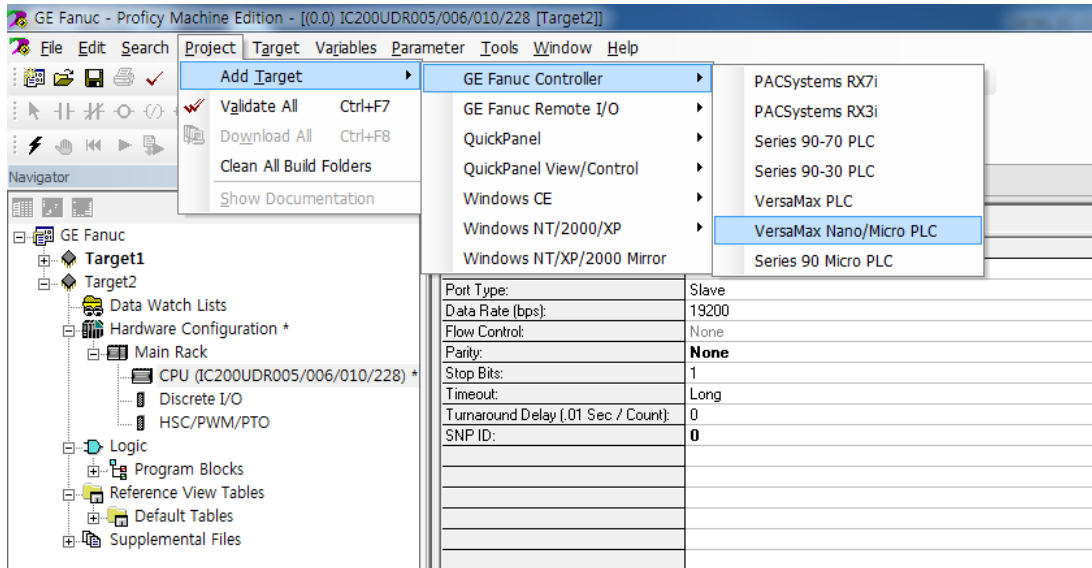
※ Set the “SNP ID” among [CPU module] - [Settings] parameter items.

Step 4. Execute [Target] – [Download “Target” to Controller...] in the Tool Bar to download the settings to PLC.

4.4 External device setting 4 (Port 1/2 on CPU Unit of VersaMax)

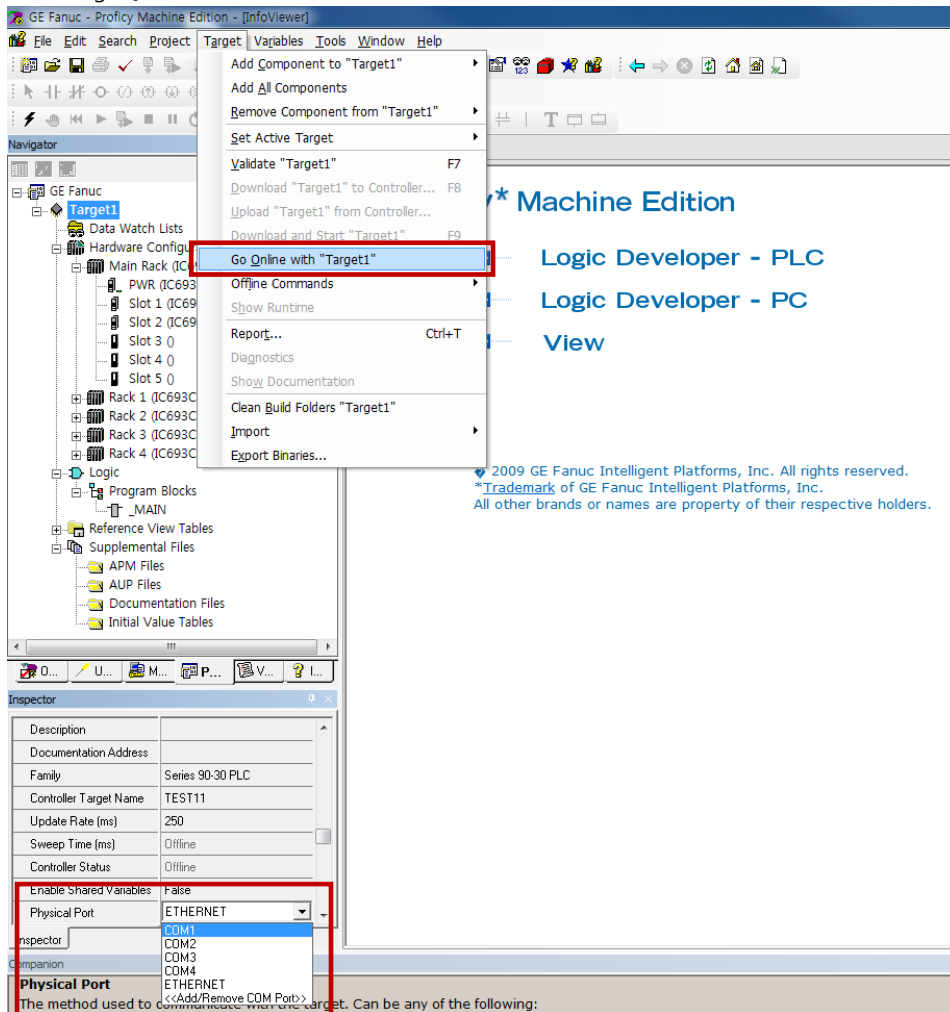
Use “90–30/70 Series” Ladder Software “CIMPPLICITY Machine Edition” to set as follows. Reboot the external device after downloading the settings. For more detailed setting method than described in this example, refer to PLC user manual.

Step 1. Add the PLC Series you want to use as “Target” through the “[Project] – [Add Target] – [GE Fanuc Controller]” path of the Tool Bar.

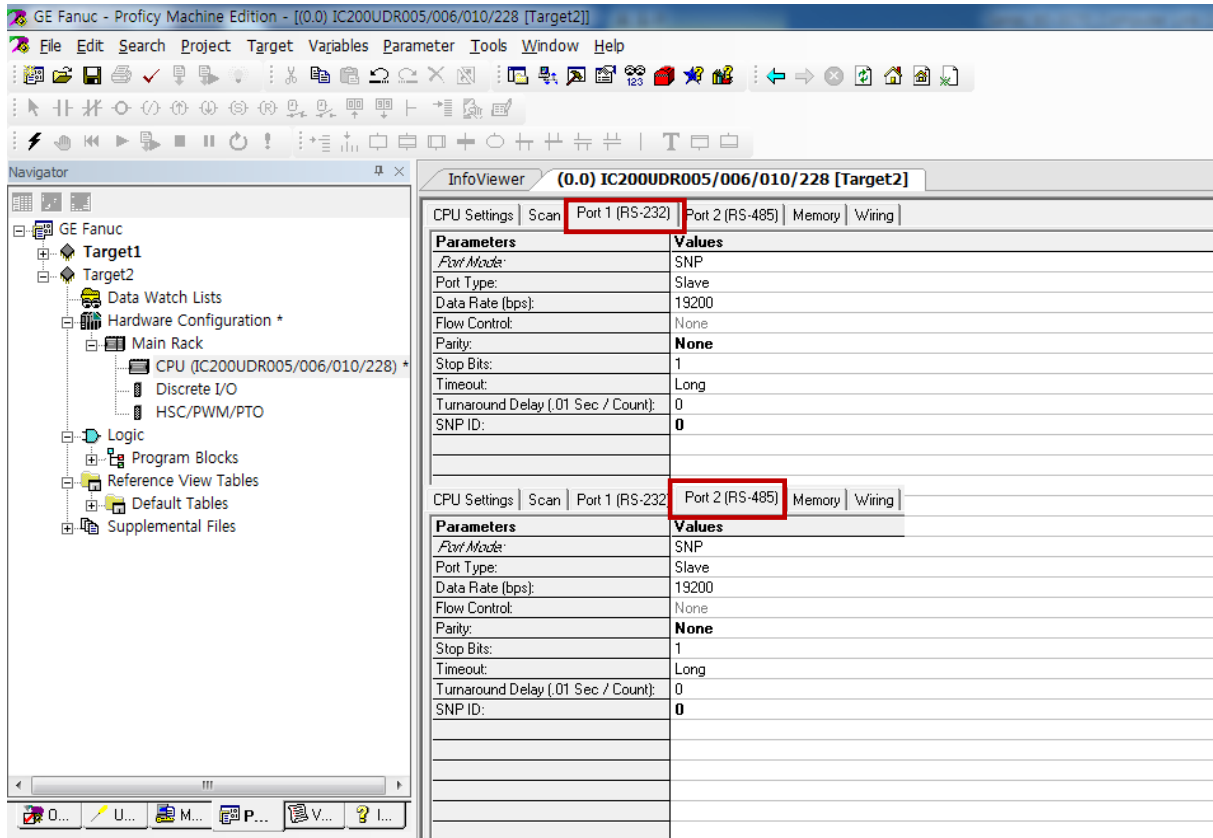


Step 2. Add the “Power” and “CPU Module” to the “[Hardware Configuration] – [Main Rack]” path.

Step 3. Select the communication method between PC and PLC in the [Properties] of the “Target”, and then execute [Target] – [Go Online with “Target”] in the Tool Bar to connect to PLC.



Step 3. Double-click "CPU Module" to display the setting window, and in the [Port1 (RS-232)] or [Port2 (RS-485)] tab of the window, set as follows.



Items	Contents	Settings	Remarks
Port Mode	Set the serial communication protocol of the corresponding port.	SNP	Fixed
Port Type	Set the serial communication mode of the corresponding port.	Slave	Fixed
Data Rate[bps]	Set the serial communication speed of an external device.	19200	
Parity	Set the serial communication parity bit of an external device.	None	
Stop Bits	Set the serial communication stop bit of an external device.	1	
SNP ID	Set the SNP ID of the external device.	0	

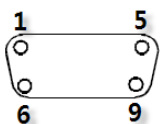
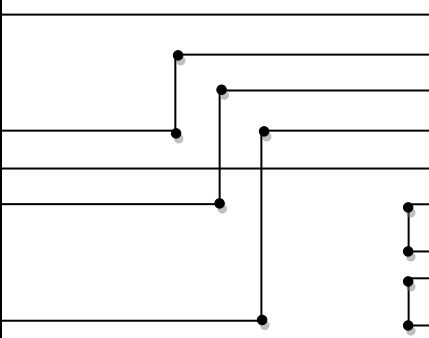
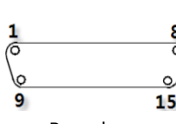
Step 4. Execute [Target] – [Download "Target" to Controller...] in the Tool Bar to download the settings to PLC.

5. Cable table

This chapter introduces a cable diagram for normal communication between the TOP and the corresponding device.
(The cable diagram described in this section may differ from the recommendations of "GE Fanuc Automation".)

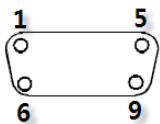
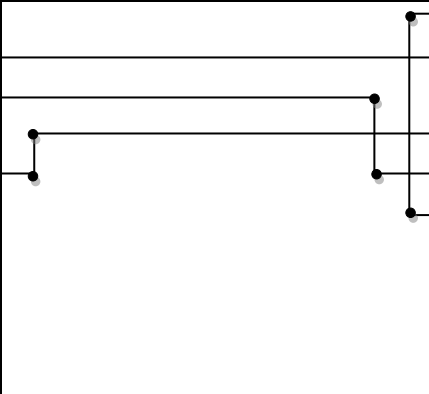
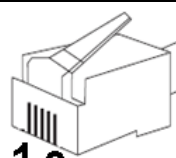
5.1 Cable table 1 (Port on Power Unit, Built-in Serial Port of Series 90-30/70)

■ RS-422 (1:1 connection)

COM			Cable connection	PLC		
Pin arrangement* Note 1)	Signal name	Pin number		Pin number	Signal name	Pin arrangement* Note 1)
 <p>Based on communication cable connector front, D-SUB 9 Pin male (male, convex)</p>	RDA	1		13	SDA	 <p>Based on communication cable connector front, D-SUB 15 Pin male (male, convex)</p>
		2		12	SDB	
		3		11	RDA	
	RDB	4		10	RDB	
	SG	5		7	SG	
	SDA	6		6	RTS+	
		7		15	CTS+	
		8		14	RTS-	
	SDB	9		8	CTS-	

***Note 1)** The pin arrangement is as seen from the connecting side of the cable connection connector.

■ RS-232C (1:1 connection)

COM			Cable connection	PLC		
Pin arrangement* Note 1)	Signal name	Pin number		Pin number	Signal name	Pin arrangement* Note 1)
 <p>Based on communication cable connector front, D-SUB 9 Pin male (male, convex)</p>	CD	1		1	CTS	 <p>Based on communication cable connector front, 6 pin male RJ12 (male, convex)</p>
	RD	2		2	TXD	
	SD	3		3	0V	
	DTR	4		4	SG	
	SG	5		5	RXD	
	DSR	6		6	RTS	
	RTS	7				
	CTS	8		9		

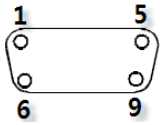
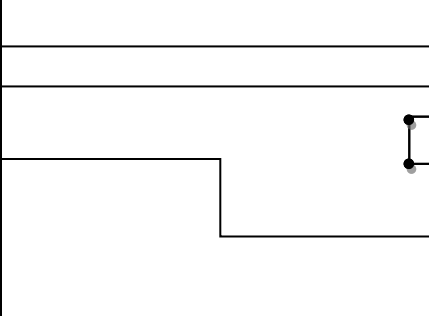
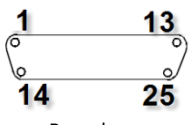
***Note 1)** The pin arrangement is as seen from the connecting side of the cable connection connector.

■ RS-422 (1:N connection) – Refer to 1:1 connection to connect in the following way.

TOP	Cable connection and signal direction	PLC	Cable connection and signal direction	Terminating PLC
Signal name		Signal name		Signal name
RDA	→	SDA	←	SDA
RDB	→	SDB	←	SDB
SDA	→	RDA	←	RDA
SDB	→	RDB	←	RDB
SG	→	0V	←	0V
		RTS+	←	RTS+
		CTS+	←	CTS+
		RTS-	←	RTS-
		CTS-	←	CTS-

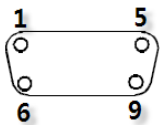
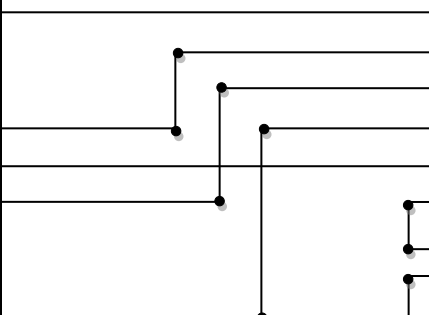
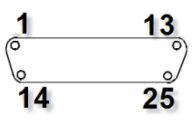
5.2 Cable table 2 (ICM693CMM311, ICM697CMM711)

■ RS-232C (1:1 connection)

COM			Cable connection	PLC		
Pin arrangement* Note 1)	Signal name	Pin number		Pin number	Signal name	Pin arrangement* Note 1)
 <p>Based on communication cable connector front, D-SUB 9 Pin male (male, convex)</p>	CD	1		1		 <p>Based on communication cable connector front, D-SUB 25 Pin male (male, convex)</p>
	RD	2		2	TD	
	SD	3		3	RD	
	DTR	4		4	RTS	
	SG	5		5	CTS	
	DSR	6		6		
	RTS	7		7	SG	
	CTS	8			(Omitted)	
		9				

***Note 1)** The pin arrangement is as seen from the connecting side of the cable connection connector.

■ RS-422 (1:1 connection)

COM			Cable connection	PLC		
Pin arrangement* Note 1)	Signal name	Pin number		Pin number	Signal name	Pin arrangement* Note 1)
 <p>Based on communication cable connector front, D-SUB 9 Pin male (male, convex)</p>	RDA	1		21	SDA	 <p>Based on communication cable connector front, D-SUB 25 Pin male (male, convex)</p>
		2		9	SDB	
		3		25	RDA	
	RDB	4		13	RDB	
		5		7	SG	
	SDA	6		10	RTS+	
		7		11	CTS+	
		8		22	RTS-	
	SDB	9		23	CTS-	

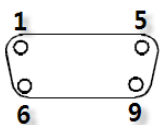
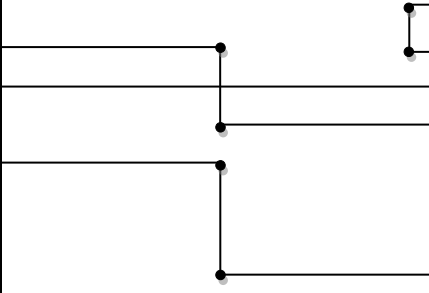
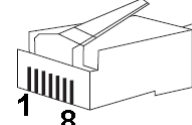
***Note 1)** The pin arrangement is as seen from the connecting side of the cable connection connector.

■ RS-422 (1:N connection) – Refer to 1:1 connection to connect in the following way.

TOP	Cable connection and signal direction	PLC	Cable connection and signal direction	Terminating PLC
Signal name		Signal name		Signal name
RDA	→	SDA	←	SDA
RDB	→	SDB	←	SDB
SDA	→	RDA	←	RDA
SDB	→	RDB	←	RDB
SG	→	0V	←	0V
		RTS+	←	RTS+
		CTS+	←	CTS+
		RTS-	←	RTS-
		CTS-	←	CTS-

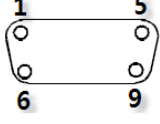
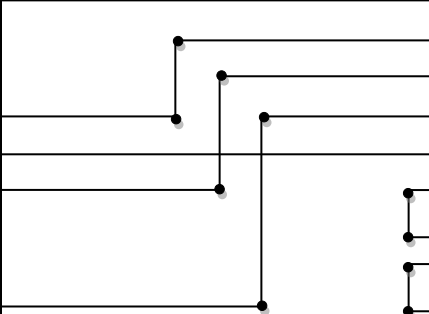
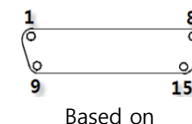
5.3 Cable table 3 (Port on CPU Unit of VersaMax)

■ RS-232C (1:1 connection)

COM			Cable connection	PLC		
Pin arrangement* Note 1)	Signal name	Pin number		Pin number	Signal name	Pin arrangement* Note 1)
 <p>Based on communication cable connector front, D-SUB 9 Pin male (male, convex)</p>	CD	1		1	RTS	 <p>Based on communication cable connector front, 8-pin male RJ45 (Male, convex)</p>
	RD	2		2	CTS	
	SD	3		3	RXD	
	DTR	4		4	TXD	
	SG	5		5		
	DSR	6		6		
	RTS	7		7		
	CTS	8		8	GND	
				9		

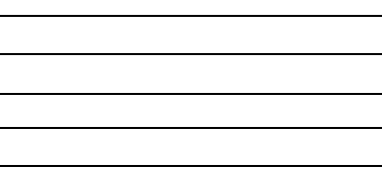
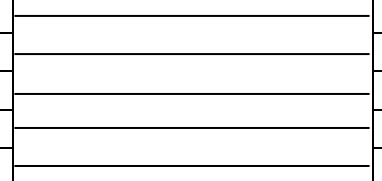
***Note 1)** The pin arrangement is as seen from the connecting side of the cable connection connector.

■ RS-422 (1:1 connection)

COM			Cable connection	PLC			
Pin arrangement* Note 1)	Signal name	Pin number		Pin number	Signal name	Pin arrangement* Note 1)	
 <p>Based on communication cable connector front, D-SUB 9 Pin male (male, convex)</p>	RDA	1		13	SDA	 <p>Based on communication cable connector front, D-SUB 15 Pin male (male, convex)</p>	
				2	12		SDB
				3	11		RDA
	RDB	4		10	RDB		
				5	7		SG
	SDA	6		6	RTS+		
				7	15		CTS+
				8	14		RTS-
	SDB	9		8	CTS-		

***Note 1)** The pin arrangement is as seen from the connecting side of the cable connection connector.

■ RS-422 (1:N connection) – Refer to 1:1 connection to connect in the following way.

TOP	Cable connection and signal direction	PLC	Cable connection and signal direction	Terminating PLC
Signal name		Signal name		Signal name
RDA		SDA		SDA
RDB		SDB		SDB
SDA		RDA		RDA
SDB		RDB		RDB
SG		0V		0V
		RTS+		RTS+
		CTS+		CTS+
		RTS-		RTS-
		CTS-		CTS-

6. Supported addresses

The devices available in TOP are as follows:

The device range (address) may differ depending on the CPU module series/type. The TOP series supports the maximum address range used by the external device series. Please refer to each CPU module user manual and be take caution to not deviate from the address range supported by the device you want to use.

Device	Bit Address	Word Address	Word Address NOTE	32 BIT
Input Relay	I00001 – I32768	I00001 – I32753	I00001 + 16*n *Note 1)	L/H*Note 2)
Output Relay	Q00001 – Q32768	Q00001 – Q32753	Q00001 + 16*n *Note 1)	
Internal Relay	M00001 – M32768	M00001 – M32753	M00001 + 16*n *Note 1)	
Global Relay	G00001 – G7680	G0001 – G7665	G0001 + 16*n *Note 1)	
Momentary Relay	T001 – T1024	T001 – T1009	T001 + 16*n *Note 1)	
System Function Relay	S001 – S128	S001 – S113	S001 + 16*n *Note 1)	
	SA001 – SA128	SA001 – SA113		
	SB001 – SB128	SB001 – SB113		
	SC001 – SC128	SC001 – SC113		
Register	R00001.0 – R32640.15	R00001 – R32640		
Analog Input	AI0001.0 – AI32640.15	AI0001 – AI32640		
Analog Output	AQ0001.0 – AQ32640.15	AQ0001 – AQ32640		

***Note 1)** When using a bit address that uses decimals, use a word address in units of "16"

***Note 2)** The lower 16-bit data of 32-bit data is saved in the screen-registered address, and the upper 16-bit data is saved in the address following the screen-registered address.

Ex. When saving 32BIT data hexadecimal data 12345678 in address D00100, it is saved to 16BIT device address as follows:

Items	32BIT	16BIT	
	Address	D00100	D00101
Input data (hexadecimal)	12345678	5678	1234