

Mitsubishi <9> Mitsubishi Electric Corporation

QnA Series CPU Direct Connection

System Structure

Connecting Directly	
Using 2-Port Adapter	To Terminal Block To GPP or Computer Port
Using Internal 2-Port Feature	GPW-CB02

GP

Machine	Model	Remark
GP	GP70 Series GP77/77R Series GP2000 Series	Excepting for handy types. The internal 2-Port feature is supported by only GP77/77R Series and GP2000 Series.
GLC	GLC2000 Series	2-Port Adapter and the internal 2-Port feature are not supported.



PLC

[Connecting Directly]

СРИ	Communication	Connection Cable	
	Method		GP
Q4A, Q2A, Q2AS, Q2AS-S1, Q4AR	RS-422	Connection Method	<u> </u>
Q2A5-51, Q4AK	RS-232C	[1]	

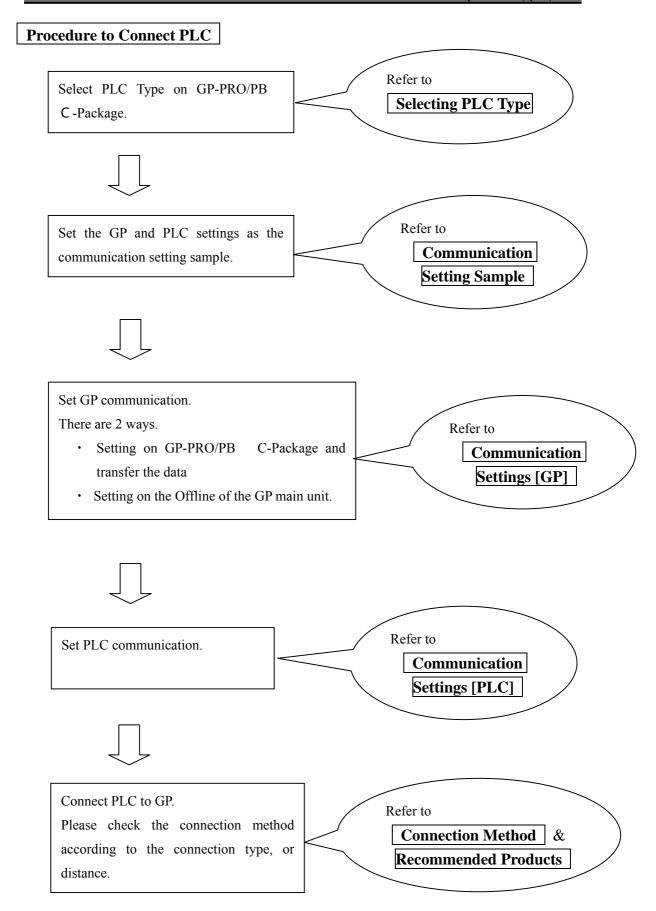
[Using 2-Port Adapter]

CPU	Adapter	Communication Method	Connection Cable	GP
Q4A, Q2A, Q2AS-S1 Q2ASH	GP070-MD11	RS-422	Connection Method [2]	

[Using Internal 2-Port Feature]

CPU	Communication Method	Connection Cable	GP
Q4A, Q2A,	RS-232C		CD77/77D Series
Q2AS-S1 Q2ASH	RS-422	Connection Method [1]	GP77/77R Series GP2000 Series







Selecting PLC Type

Start up GP-PRO /PBIII.

Select the following PLC Type when creating the project file.



Communication Setting Sample

GP Setup		PLC Settings
Baud Rate	19200 bps	
Data Length	8 bits	
Stop Bit	1 bit	
Parity Bit	Odd	
Data Flow Control	ER Control	
Communication Format *1 (RS-232C)	RS-232C	
Communication Format (RS- 422)	4-wire type	
Unit No.	0 (fixed)	

^{*1} For Communication Format, select RS-232C when using GP430-IP10-O, or select 4-wire type cable when using another cable.

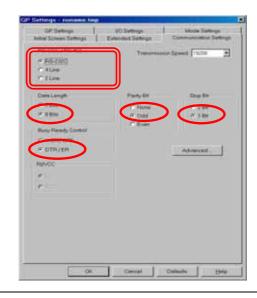


Communication Settings [GP]

1 [GP-PRO/PB C-Package Setting]

Select [GP Setup] on Project Manager.

1) Communication Settings



1) Communication Settings

Transmission Speed: 19200bps

Data Length: 8 Bits Stop Bit: 1 Bit Parity Bit: Odd

Busy Ready Control: DTR / ER

RS-232C/RS-422:

Using GP430-IP10-O: RS-232C Using Other Cable: 4 Line

* Select one in

2) Mode Settings

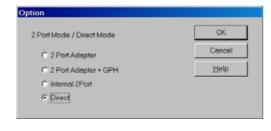


2) Mode Settings

System Start Address: Arbitrary Address

Select [Option...].

3) 2-Port Mode/Direct Mode Settings



3) 2-Port Mode/Direct Mode Settings

Using GP430-IP10-O or User-Created Cable:

Direct

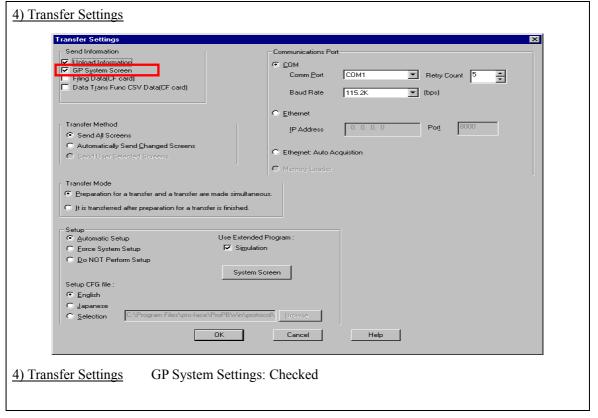
Using 2-Port Adapter : 2-Port Adapter

Using Internal 2-Port Feature:

Internal 2-Port



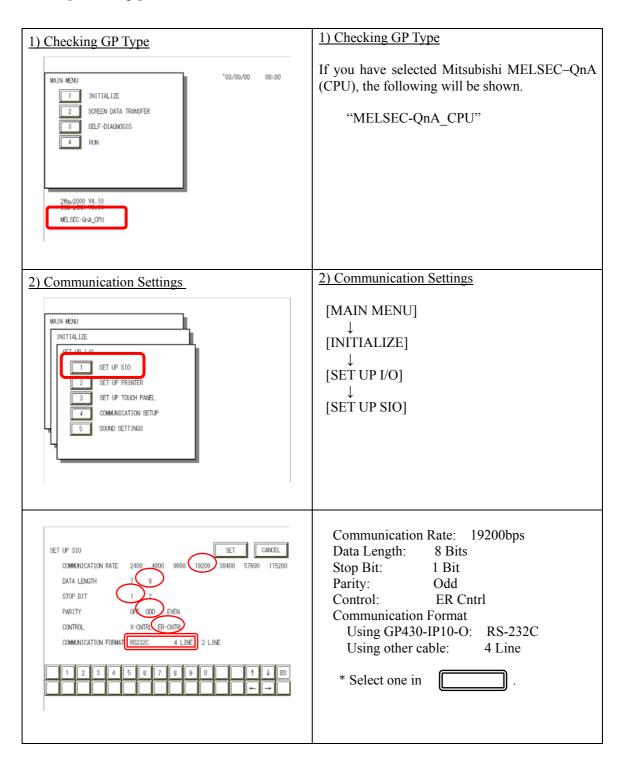
Select [Transfer] --> [Setup] --> [Transfer Settings].



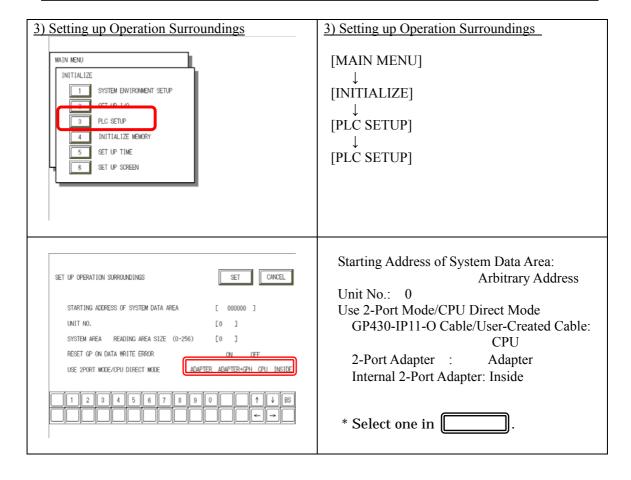
Transfer to GP after settings completed.



2 [GP Settings]

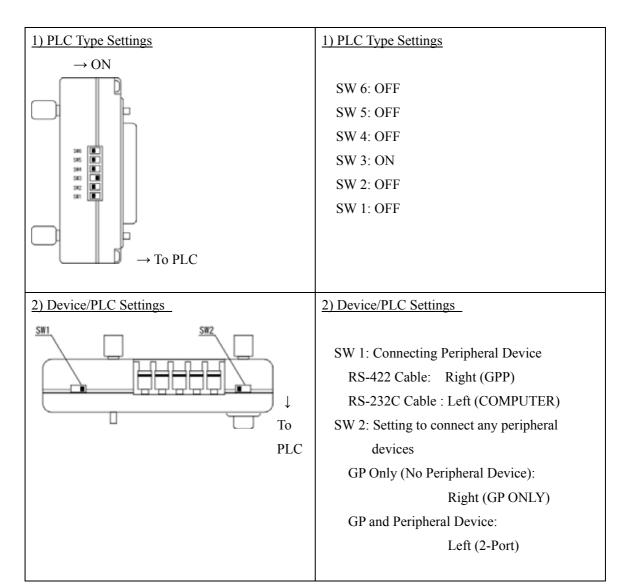


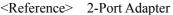


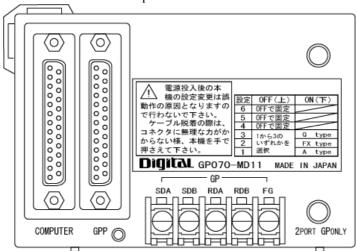




3 [2-Port Adapter Settings]









Communication Settings [PLC]

There are no items to set on the PLC.

Connection Method

[Connecting Directly / Connecting with Internal 2-Port Feature]

Type	Connection Method	Distance
Using GP430-IP10-O	-	5m
Creating Cable	To GP (25p Male) 1.FG 7.SG 9.TRMX 10.RDA 11.SDA 15.SDB 16.RDB 18.CSB 19.ERB 21.CSA 22.ERA To PLC (25p Male) 3.SDA 16.SDB 7.SG 2.RDA 15.RDB 17.CSB 5.ERA 18.ERB 20 21 Shield	Within 5 m Supporting Models: GP2000 / GLC2000 Series



This wiring is available for only GP2000 Series / GLC2000 Series.

Recommended Products

Connecter/Cover	D-sub 25 pin Plug	XM2A-2501 <omron co.=""></omron>
for GP	Cover for D-sub 25 pin	XM2S-2511 <omron co.=""></omron>
	Jack Screw	XM2Z-0071 < OMRON Co.>
Cable	CO-MA-VV-SB5P × 28AWG <hitachi cable="" ltd.=""></hitachi>	
Setscrew	Metric Coarse Screw Tread : M2.6 × 0.45	



[Connecting via 2-Port Adapter]

Туре	Connection Method	
Using GP070-MDCB11	Cable with Adapter with 5 wires 5 contacts RDA O SDA RDB O SDB SDA O RDA SDB O RDB SG O SG Cross the signal names of wires and ones of terminal block contacts.	5 m
Creating Cable	To GP (25p Male) Adapter Terminal Block 10.RDA	Within 600m

Recommended Products

Connecter/Cover for GP	D-sub 25 pin Plug	XM2A-2501 <omron co.=""></omron>	
IOI OF	Cover for D-sub 25 pin	XM2S-2511 <omron co.=""></omron>	
	Jack Screw	XM2Z-0071 <omron co.=""></omron>	
Terminal on Adapter	Equivalent to V1.25-MS3 < J.S.T. Mfg. Co., Ltd.>		
Cable	CO-SPEV-SB (A) 3PX0.5SQ <hitachi cable="" ltd.=""></hitachi>		
Setscrew	Metric Coarse Screw Tread: M2.6 × 0.45		