

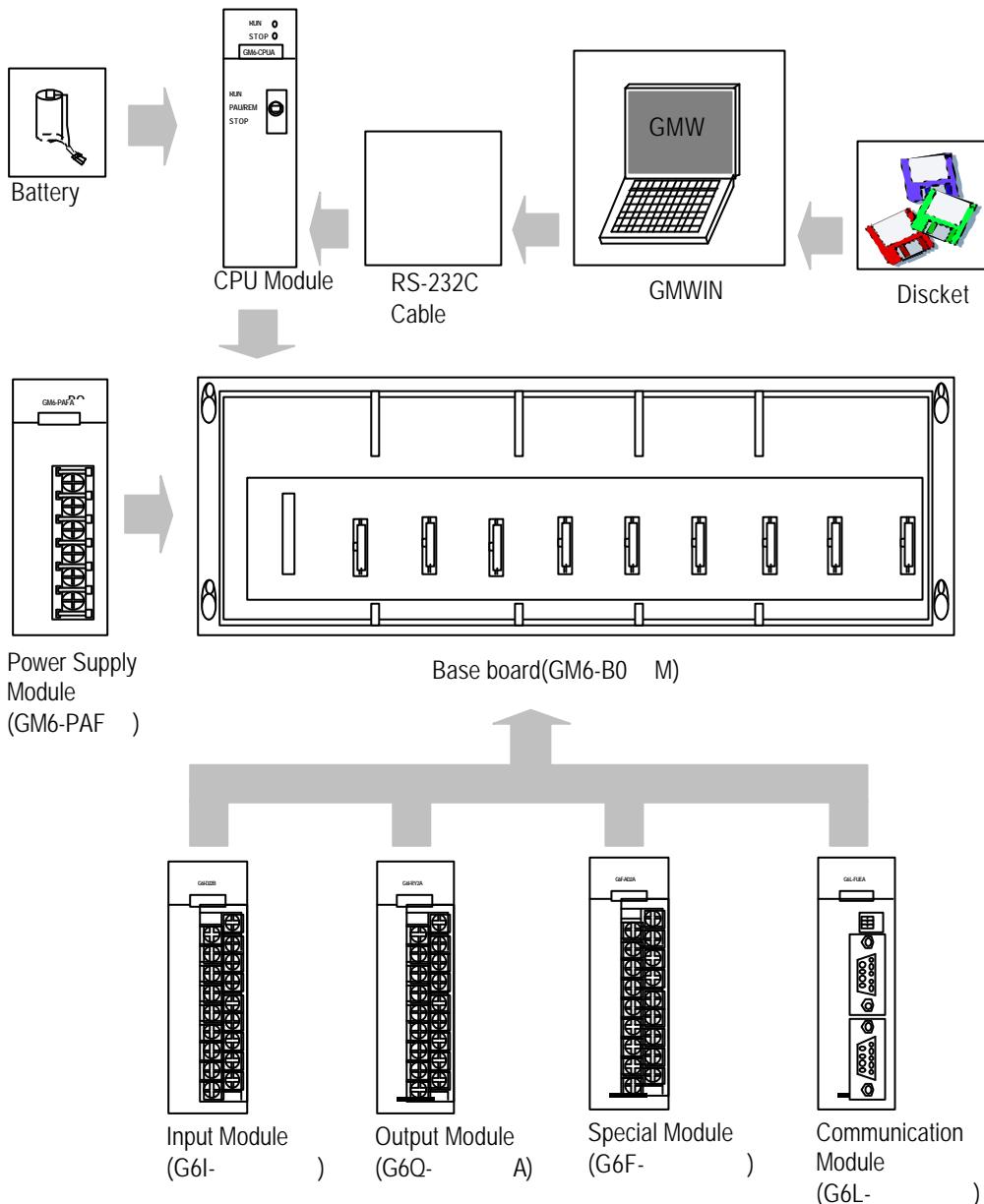
Chapter 2. SYSTEM CONFIGURATION

The GLOFA-GM6 series has various modules suitable to configuration of the basic, computer link and network systems.

This chapter describes the configuration and features of each system.

2.1 Overall Configuration

The following shows the overall configuration of the GLOFA-GM6 series.



2.2 Product List

The following table shows product list of GLOFA-GM6 series.

2.2.1 GM6 series Configuration

Items	Models	Description		Remarks
CPU module	GM6-CPUA	<ul style="list-style-type: none"> • Maximum I/O points: 256 • Special functions : RS-232 communication 		
	GM6-CPUB	<ul style="list-style-type: none"> • Maximum I/O points : • Special functions : RS-422/485 communication, RTC, PID 		
	GM6-CPUC	<ul style="list-style-type: none"> • Maximum I/O points : • Special functions : RS-232C communication, RTC, PID, HSC 		
Digital input module	G6I-D21A	<ul style="list-style-type: none"> • 8-point 12/24 VDC input module(current source & sink input) 		
	G6I-D22A	<ul style="list-style-type: none"> • 16-point 12/24 VDC input module(current source & sink input) 		
	G6I-D22B	<ul style="list-style-type: none"> • 16-point 12/24 VDC input module(current source input) 		
	G6I-D24A	<ul style="list-style-type: none"> • 32-point 12/24 VDC input module(current source & sink input) 		
	G6I-D24B	<ul style="list-style-type: none"> • 32-point 12/24 VDC input module(current source input) 		
	G6I-A11A	<ul style="list-style-type: none"> • 8-point 110 VAC input module 		
	G6I-A21A	<ul style="list-style-type: none"> • 8-point 220 VAC input module 		
Digital output module	G6Q-RY1A	<ul style="list-style-type: none"> • 8-point relay output module(2A) 		
	G6Q-RY2A	<ul style="list-style-type: none"> • 16-point relay output module(2A) 		
	G6Q-TR2A	<ul style="list-style-type: none"> • 16-point transistor output module(0.5A, sink output) 		
	G6Q-TR2B	<ul style="list-style-type: none"> • 16-point transistor output module(0.5A, source output) 		
	G6Q-TR4A	<ul style="list-style-type: none"> • 32-point transistor output module(0.1A, sink output) 		
	G6Q-TR4B	<ul style="list-style-type: none"> • 32-point transistor output module(0.1A, source output) 		
	G6Q-SS1A	<ul style="list-style-type: none"> • 8-point triac output module(1A) 		
Main base unit	GM6-B04M	<ul style="list-style-type: none"> • Up to 4 I/O modules can be mounted. 		
	GM6-B06M	<ul style="list-style-type: none"> • Up to 6 I/O modules can be mounted. 		
	GM6-B08M	<ul style="list-style-type: none"> • Up to 8 I/O modules can be mounted. 		
Power supply module	GM6-PAFA	Free Voltage (100 ~ 240VAC)	<ul style="list-style-type: none"> • 5 VDC : 2 A, 24 VDC : 0.3 A • 5 VDC : 2 A • +15 VDC : 0.5 A, -15VDC : 0.2 A 	
	GM6-PAFB			
	GM6-PD3A	DC24V	<ul style="list-style-type: none"> • 5 VDC : 2 A 	
	GM6-PDFA	DC12/24V	<ul style="list-style-type: none"> • 5 VDC : 2 A 	

Items	Models	Description		Remarks
Special modules	A/D conversion module	G6F-AD2A	<ul style="list-style-type: none"> • Voltage/current input : 4 channels • DC -10 to 10V / DC -20 to 20 mA 	
	D/A conversion module	G6F-DA2V	<ul style="list-style-type: none"> • Voltage output: 4 channels • DC -10 to 10V 	
		G6F-DA1A	<ul style="list-style-type: none"> • Current output : 4 channels • DC 4 to 20 mA 	
	High speed counter module	G6F-HSCA	<ul style="list-style-type: none"> • Counting range: 0 to 16,777,215(24 bit binary) • 50 kHz, 1 channel 	
	Positioning module	G6F-POPA	<ul style="list-style-type: none"> • Pulse output, 2-axes control 	
Communication modules	Fnet I/F module	G6L-FUEA	<ul style="list-style-type: none"> • For Fnet I/F • 1 Mbps base band • For twisted cable 	
	Fnet remote I/F module	G6L-RBEA	<ul style="list-style-type: none"> • For Fnet remote I/F • 1 Mbps base band • For twisted cable 	
	Computer Link module	G6L-CUEB	<ul style="list-style-type: none"> • RS-232C 	
		G6L-CUEC	<ul style="list-style-type: none"> • RS422 	
	Dnet I/F module	G6L-DUEA	<ul style="list-style-type: none"> • Dnet I/F master module • Complying with ODVA (Open Devicenet Vendor Association) 2.0 standard. 	
		G6L-DSIA	<ul style="list-style-type: none"> • Dnet I/F slave input module • 12/24 VDC input (16 points) • Complying with ODVA (Open Devicenet Vendor Association) 2.0 standard. 	
		G6L-DSQA	<ul style="list-style-type: none"> • Dnet I/F slave output module • Relay output (16 points) • Complying with ODVA (Open Devicenet Vendor Association) 2.0 standard. 	
Others	Dust Proof Module	GM6-DMMA	<ul style="list-style-type: none"> • Protect empty slot for dust 	

2.3 System Configuration Types

System configuration is classified into 3 types that Basic system, Computer link system executing data communications between the CPU module and a computer by use of a computer link module(G6L-CUEB/C) and Network systemcontrolling the PLC and remote I/O modules.

2.3.1 Basic System

The following describes basic system.

Example of System configuration	Slot number	0	1	2	3	4	5	6	7								
	POWER	0.0.0 ~ 0.0.15	0.1.0 ~ 0.1.15	0.2.0 ~ 0.2.15	0.3.0 ~ 0.3.15	0.4.0 ~ 0.4.15	0.5.0 ~ 0.5.15	0.6.0 ~ 0.6.15	0.7.0 ~ 0.7.15								
Base Board																	
(The above figure shows the configuration where 16-input/output modules are loaded.)																	
Maximum number of Input/Output modules	8 modules																
Maximum number of Input/Output points	<ul style="list-style-type: none"> • 16-point module mounted: 128 points • 32-point module mounted: 256 points 																
Configuration units	CPU module	GM6-CPUA, GM6-CPUB, GM6-CPUC															
	Power Supply module	GM6-PAFA, GM6-PAFB, GM6-PD3A, GM6-PDFA															
	Basic Base Unit	GM6-B04/06/08M															
	I/O module	G6I-□□□□ G6Q-□□□□															
	Special module	G6F-□□□□															
	Communication module	G6L-□□□□															
I/O number allocation	<p>64 points are allocated to each slot in a base board whatever it is empty or not. There's no limitation for the location and the number of special modules on base board. Special modules do not have fixed I/O numbers while a fixed I/O number is allocated to a digital I/O module. A dedicated function block controls a special module and memory is allocated automatically.</p>																
Note for power supply module selection	<ul style="list-style-type: none"> • To use A/D, D/A conversion module, be sure to select GM6-PAFB power supply module that supplies ±15VDC instead of 24VDC. ±15VDC power is need for operation of internal analog circuit of A/D and D/A conversion modules. 																

2.3.2 Computer Link System

Computer Link System communicates data between the CPU module and peripheral devices like a computer or a printer by use of RS-232C and RS-422(or RS-485)interface of the computer link module.

The G6L-CUEB or G6L-CUEC are the computer link module for GM6 series. For details of computer link module, refer to related User's Manual.

2.3.3 Network System

The Network system adapted in the GLOFA series a Fnet system that satisfies the IEC/ISA field bus specifications. Fnet system as a network system is used for data communications between CPU modules and control of remote I/O modules so that distribution of control and concentration of supervision could be easy. For details, refer to Fnet system user's manual.