



PLC

6 GLOFA - GM

1. GLOFA - GM

- | | | |
|----|-----|----------------------|
| 1) | PLC | (A) - GLOFA - GM3/4 |
| 2) | PLC | (B) - GLOFA - GM3/4 |
| 3) | PLC | |

2.

- 1)
- 2)

3. GLOFA - GM

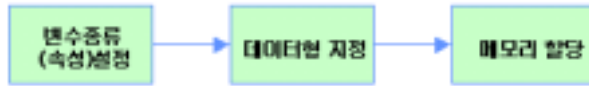
MAP

- | | |
|---------------|-------|
| 1) GLOFA - GM | |
| 2) GLOFA - GM | (MAP) |



< 5

>



PLC 가
GLOFA PLC

GLOFA PLC

GLOFA - GM

MAP

- 1) PLC ,
- 2) PLC ,
- 3)
- 4)
- 5) GLOFA - GM



1. GLOFA-GM

!
PLC

GLOFA-GM3/4

- 1) PLC (A) - GLOFA-GM3/4
- 2) PLC (B) - GLOFA-GM3/4
- 3) PLC

GLOFA-GM LG PLC , GM1 GM2,
GM3, GM4, GM6, GM7 . GLOFA-GM
GMWIN PLC open
IEC-1131-3
GLOFA PLC

GLOFA PLC

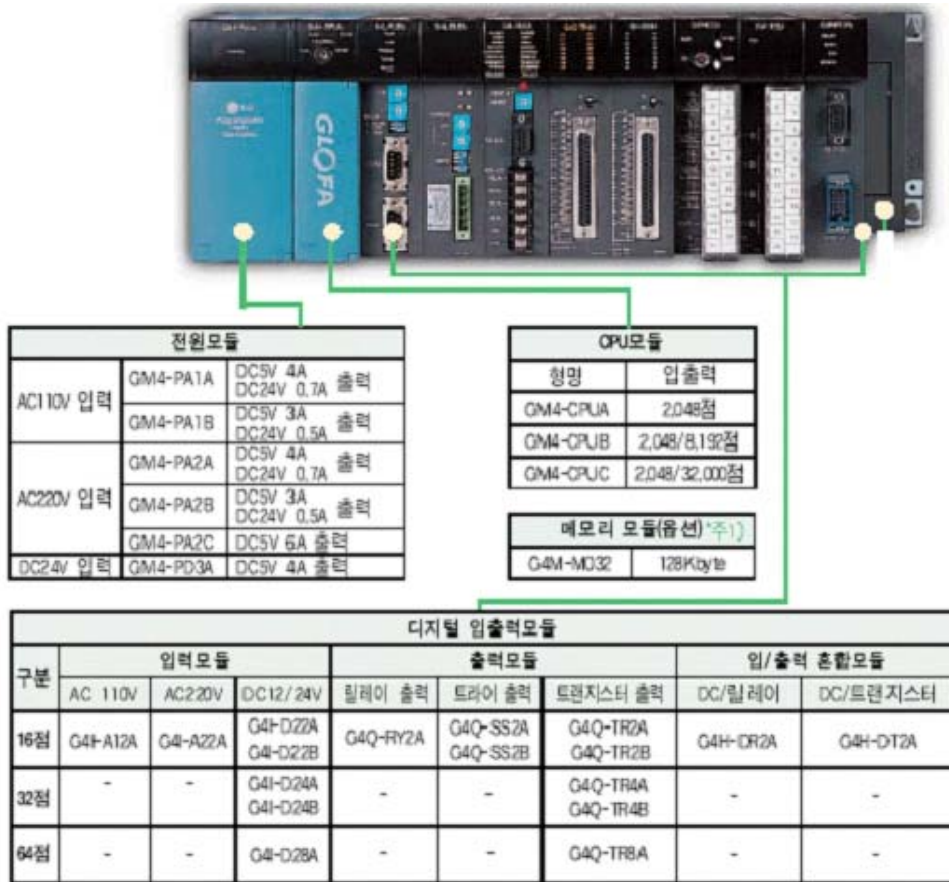
PLC

- 1) PLC (A) - GLOFA-GM3/4

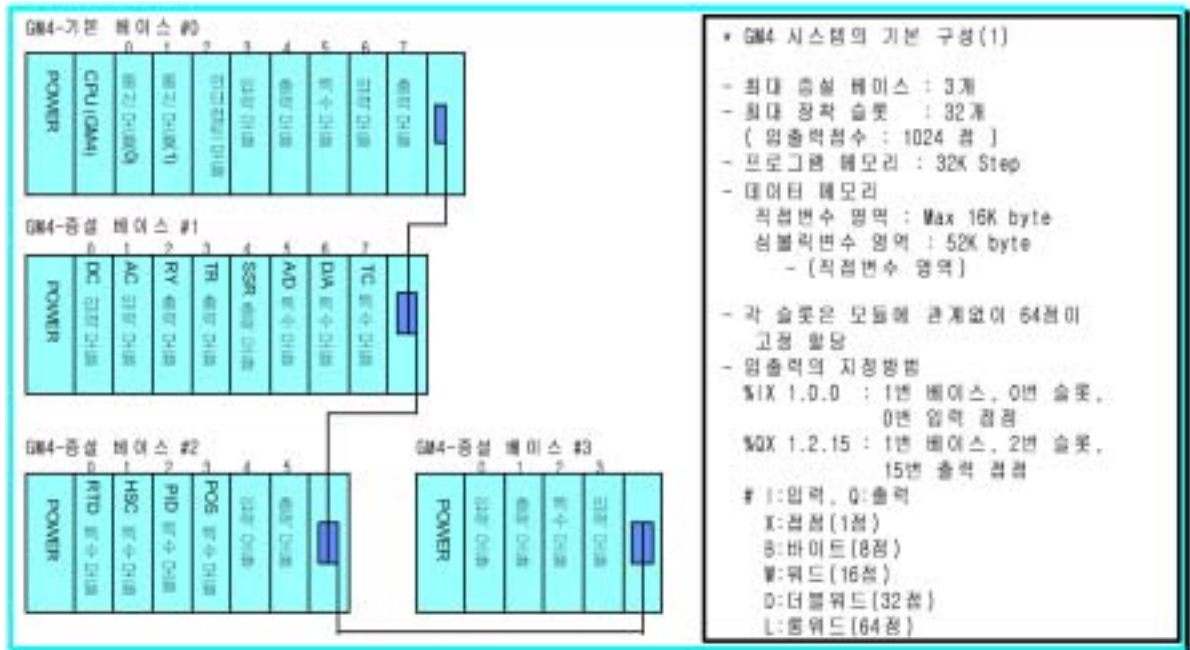
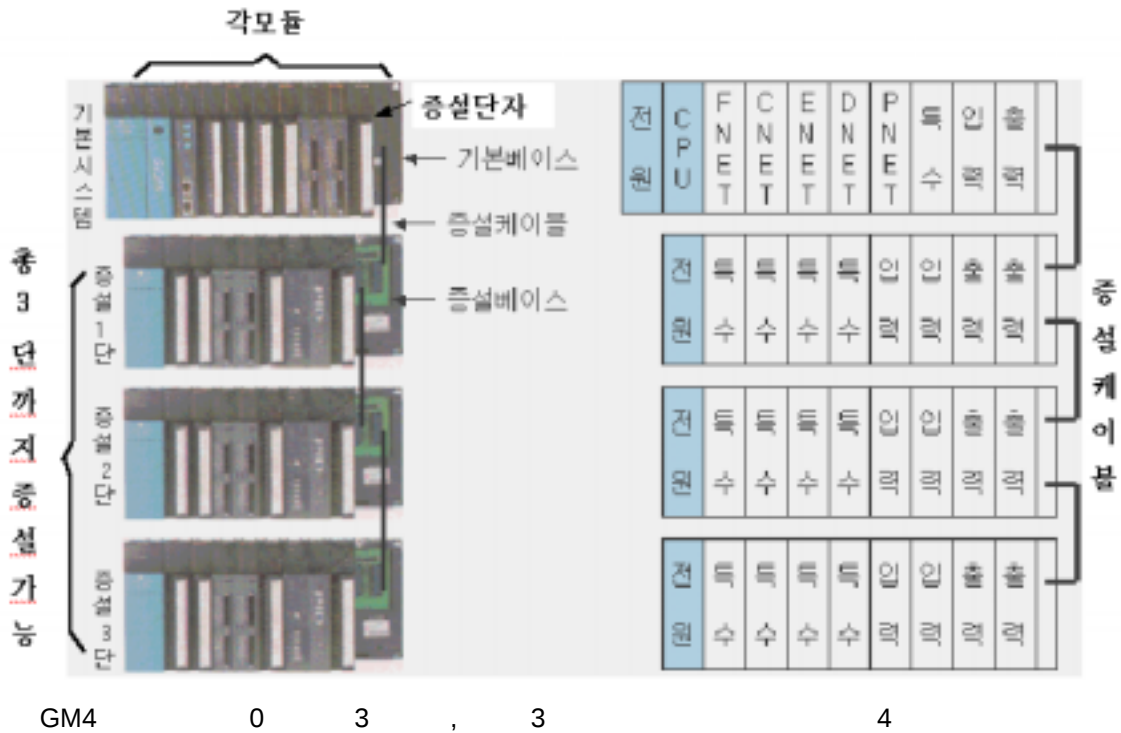
. GLOFA-GM3 GLOFA-GM4 PLC
, GLOFA-GM3 GLOFA-GM4 PLC



- (1) SMPS CPU , 가
()
- (2) CPU 가 0
- (3) 가
- (4) (A/D, D/A) (Analog)
- (5) (Enet) (Network)



- 2) PLC (B)- GLOFA-GM3/4
- A , PLC (B)- GLOFA-GM3 GM4
- . B .





3) PLC

PLC

PLC

(1) PLC 가

GLOFA-GM PLC

GMR > GM1 > GM2 > GM3 > GM4 > GM6

GMR CPU ()가 가 .

PLC	가	
GMR	15	7680(32000)
GM1	31	16000(32000)
GM2	7	4096(16000)
GM3	3	2048(4096)
GM4	3	1024(2048)
GM6	가	384(512)

* I/O

I/O (Remote I/O):

(2)

* PLC

, GMR 1 0 3 Cnet

* GM4, GM6 12 , 8 1
0

* GM4 12 , 가

* GMR I/F(Interface)

Interface (界面) : 2 (相) , PLC

(Network) :
PLC PLC (ENET)



2.

PLC

. PLC

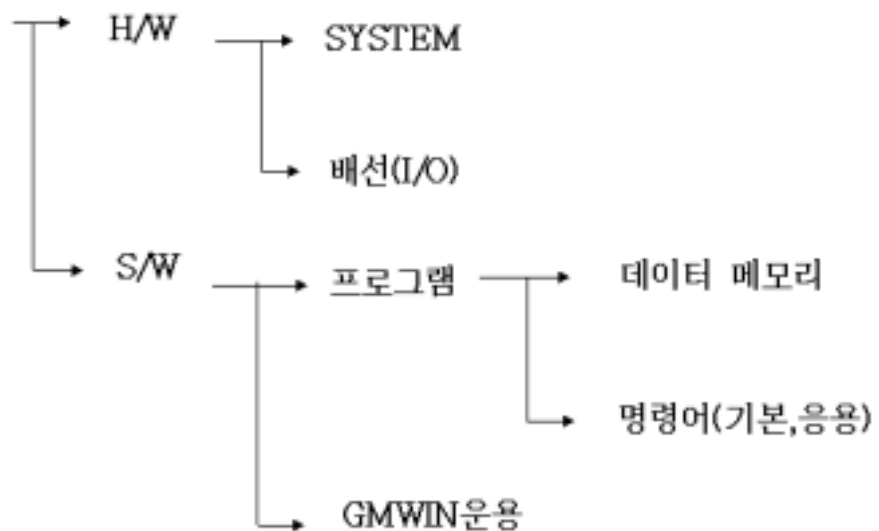
(Type)
(Named Variable)
(Array Variable :)

1)

PLC

/ , ,
, ,
가 / ,

PLC 시스템의
구성



2)

. PLC

(1) (Direct Variable)

•	: % I X 0 . 0 . 0 •	: % Q X 0 . 2 . 1 •	: % M 100 . 20
---	---------------------	---------------------	----------------

(%)

PLC

가

가

().

PLC

(%)

(%I, %Q, %M)가

64bit

가).

Bit:X, Byte:B, Word:W, Double Word:D, Long Word:L

Bit:X

	%IX0.0.0 %IW0.0.1		%MX100 %MW100	%MB100.3 : 100 3
	%QX0.1.0 %QW0.1.1		%MB50.3 %MD50.31	%MD200.31 : 200 31

(2) (Named Variable)

(Named Variable)

가

(), ,

8 , 16

()

(GLOBAL VARIABLE)

()	
VAR	:
VAR - RETAIN	가
VAR - CONSTANT	
VAR - EXTERNAL	(VAR - GLOBAL) :

,	2, _ , _ 3
,	1_BCD, AUTO_SOL_VAL, MOTOR_4

(Type)

(Type)

가 가

(ANY_NUM)

: 가 가 , 가
: LREAL, REAL, LINT, DINT, INT, SINT, ULINT, UDINT, USINT

: A/D

LREAL Long Real, DINT Double Integer, USINT Unsigned Short Integer

(ANY_BIT)

: ON/OFF 가

: BOOL, BYTE, WORD, DWORD, LWORD

: On/Off , /

(Named Variable)

가 ?

, (Named Variable)

가

* 가

가

*

)

,

(

(
)

GMWIN

변수 추가/수정

변수 이름 : M1

변수 종류 : VAR

데이터 타입 : 기본 데이터 타입 BOOL

평선 블록 인스턴스 : CTD

Array (0,) OF BOOL

메모리 할당 : 자동

사용자 정의(AT) :

확인 취소 도움말

* 가 (%I, %Q, %M)

(%I, %Q) (%M)

*

가

GMWIN

변수 추가/수정

변수 이름 : CONS

변수 종류 : VAR

데이터 타입 : 기본 데이터 타입 BOOL

평선 블록 인스턴스 : CTD

Array (0,) OF BOOL

메모리 할당 : 사용자 정의(AT) : %I0.0.0

초기값 :

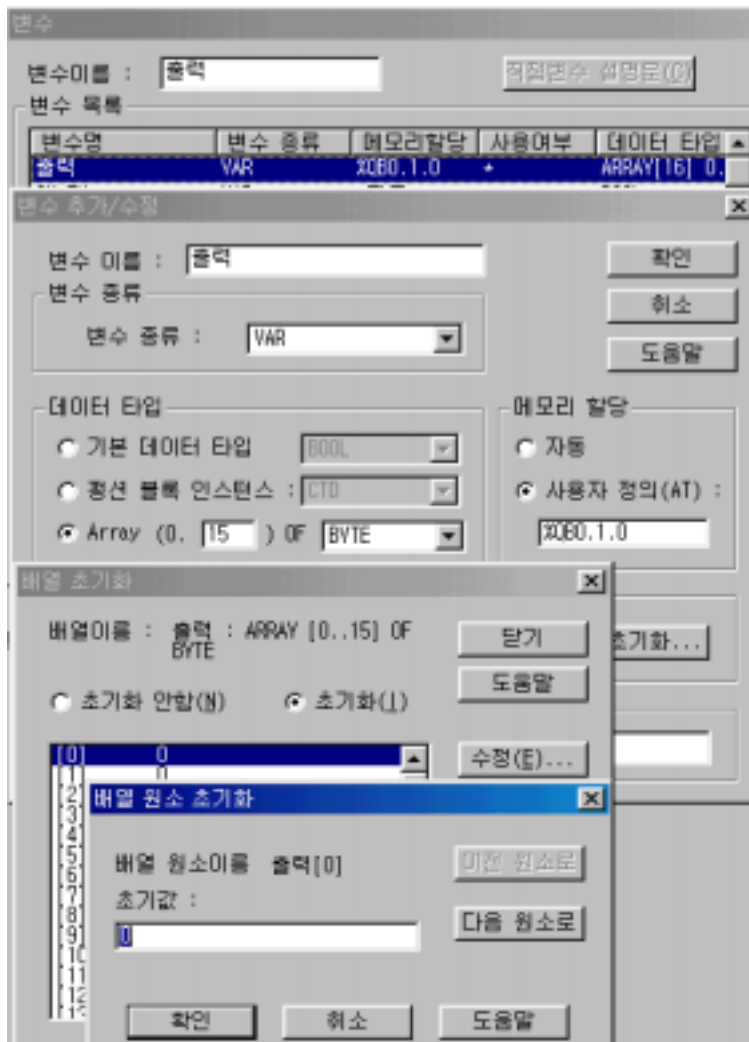
매일 초기화...

설명문 : START

확인 취소 도움말

(3) (Array Variable :)

0



3. GLOFA-GM

MAP

PLC

(MAP)

1) GLOFA-GM

, GLOFA-GM

GM4

(1)

- 1,024 (32) /
- (0.2 μ s/step)
- / 가
- Fnet (Fieldbus Network) (64 , 1Mbps, : 3,840)
- Ethernet, DeviceNet, ProfibusNet-DP
- (Down Sizing) ?
- 35W × 135H × 122D
-

(2) : , PID, _____, _____, ,

GM4 PLC



PLC GM7



GLOFA - GM

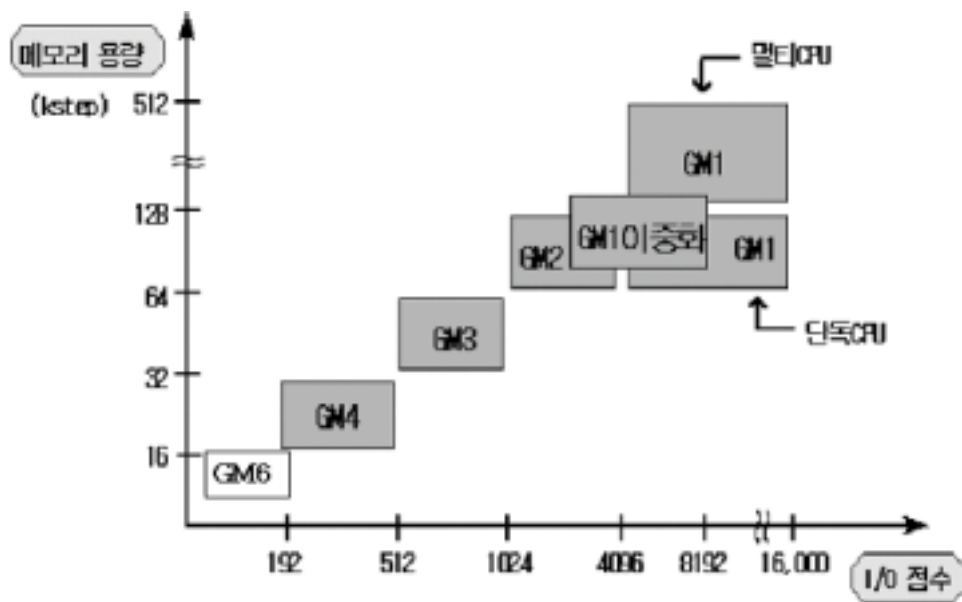
		GM4 - CPUA	GM4 - CPUB	GM4 - CPUC	
		IL(Instruction List) LD(Ladder Diagram) SFC(Sequential Function Chart)			
		LD : 13 , IL : 21			
		194	194	194 +	
		11			
		0.2 μ s /	0.2 μ s /	0.12 μ s /	
		0.2 μ s / step		0.12 μ s / step	

		GM4 - CPUA	GM4 - CPUB	GM4 - CPUC	
		가	가	가	
		128Kbyte	128Kbyte	512Kbyte	
	32	1,024	1,024	1,024	
	64	2,048	2,048	2,048	
	I/O	2,048	8,192	32,000	
		2 ~ 16Kbyte		8 ~ 64Kbyte	GMWIN
		52Kbyte –		446Kbyte –	
		, : 0.0001 ~ 4294967.295 (1,193)			1 20byte
		, : -32768 ~ 32767			1 8byte
		RUN, STOP, PAUSE, DEBUG			
		(Retain)			
		180			

		GM4 - CPUA	GM4 - CPUB	GM4 - CPUC	
		180 -			
		8	8	32	
		16			
		16			
		2 (_INT, _H, _INT)			
				1 (_ERR)	
		, . . .			
		. . .			
		(128Kbyte)	(512Kbyte)	(512Kbyte)	
		RS - 232C	RS - 232C	RS - 232C, USB	
		4			
		130mA			

2) GLOFA - GM (MAP)

GLOFA - GM 가 GM1 가 GM6 가 I/O



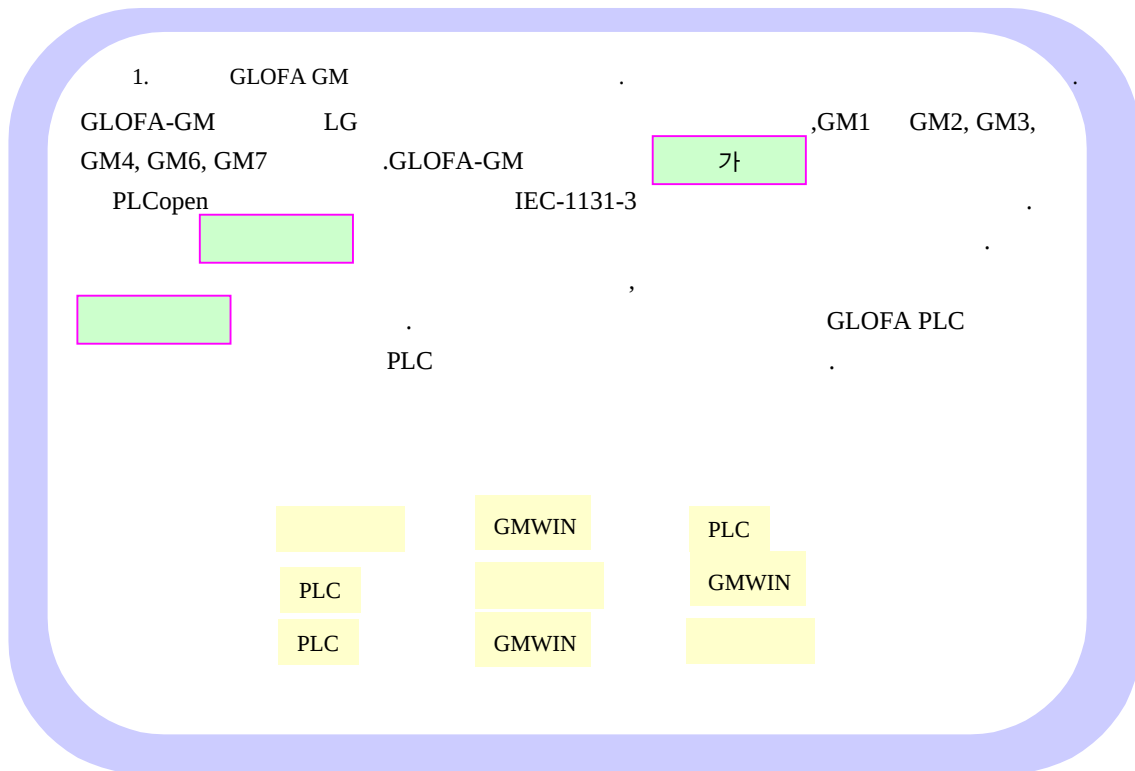


GLOFA-GM PLC

GLOFA-GM LG PLC , GM1 GM2, GM3, GM4, GM6, GM7 . GLOFA-GM GMWIN PLCopen IEC-1131-3 . GLOFA PLC

GLOFA PLC PLC

가



: 3

2.	PLC	O,	X	.
1)				○ O ○ X
2) GM4		4		○ O ○ X
3)				○ O ○ X
4) PLC	가		가 PLC	○ O ○ X

: 1. O -

2. O -

3

3. X -

4. O - GM6

PLC	가	
GMR	15	7680(32000)
GM1	31	16000(32000)
GM2	7	4096(16000)
GM3	3	2048(4096)
GM4	4	1024(2048)
GM6	가	384(512)

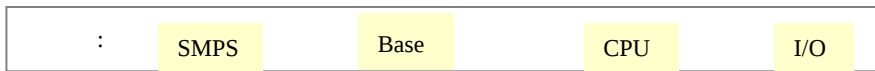
3. PLC

_____ ?

*

.

:



: Base

4. 150 (WORD) 10

- 1) %MD0.150.10
- 2) %MD150.10
- 3) %MW150.10
- 4) %MW0.150.10

: 3)

5.

3

.

A B C D



1) A

2) B

3) C

4) D

: 3) C