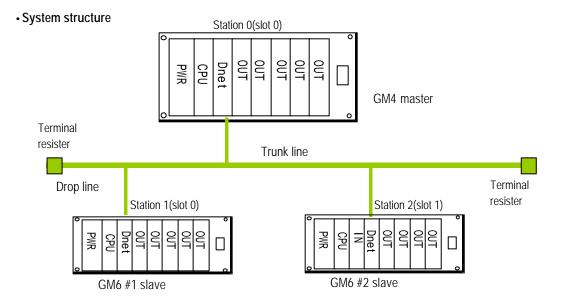
# 6.3 Program examples

# 6.3.1 Communication among LGIS' s master module, #1

Communication module(station 0) on GM4 base slot, communication module(0 station 0) on base slot 0, communication module(station 1) on GM6 #1 slot 0, communication module(station 2) on GM6 #2 slot1 is respectively attached. It is the data sending and receiving program from station 0 to station 1 or station 2. (refer to I/O structure map).	Example 1	In case sending or receiving individually performed among master and slave module.
	module(station 1)	on GM6 #1 slot 0, communication module(station 2) on GM6 #2 slot1 is respectively attached. It is the



• I/O structure map					
Sending/Receiving structure		Reading area	Storage area	Size(Byte)	
GM4(station 0)	Sending: GM6 station 1	%MW10	-	2	
(Master)	Receiving:GM6 station 2	-	%QW0.1.0	6	
GM6(Station 1) (Slave)	Receiving:GM4 station 0	-	%QW0.1.0	2	
GM6(station2) (Slave)	Sending:GM4 station 0	%MW50	-	6	

- 1) Setting of *high speed link* parameter on GM4(Station 0)
  - Setting ' Link set' on master module

	High Speed1Link Set	×
	Network Type	ок
	O GLOFA Fnet	<u> </u>
	GLOFA Mnet	Cancel
	C GLOFA Enet	Help Slot position on which master module
	C GLOFA Fdnet Network	attached, self station number, setting
	C GLOFA Fdnet Cable	scan time value and poll rate
	<ul> <li>GLOFA Dnet</li> </ul>	
	O GLOFA 422	
$\left( \right)$	Slot Num 0 Scan Time	5 msec
	Self-stat	
~		

• Setting of parameter for sending to GM6 station 6

HighSpeedL1nk It1m Edit	×
Mode Station No 1 Remote Send The opposite station number	Communication Mode Poll Strobe COS Cyclic Data size to be sent
Area PLC Area © %MW C %IW C %QV	V 10 Serveive Serveive Serveive Serveive 2
Storage area for self data to be sent	Cancel Help

Setting receiving parameter from GM6 station 1

HighSpeedL1nk It2m Edit	×
Mode Station No Remote Send Remote Receive The opposite station number	Communication Mode Poll Strobe COS Cyclic In case there is no data from
Area PLC Area C %MW C %IW © %QW	0.2.0 Size(Bit) 0
ОК	Cancel Help

• Setting parameter for sending to GM6 station 2

HighSpeedL1nk	lt3m Edit	×
<ul> <li>Mode</li> <li>Remote Send</li> <li>Remote Receive</li> </ul>	Station No	Communication Mode Poll Strobe COS Cyclic
Area PLC Area 🔿 %MVV	opposite sta	re is no data from the action, data size must ed as be set 0 Size (Bit) 0
	OK	Cancel Help

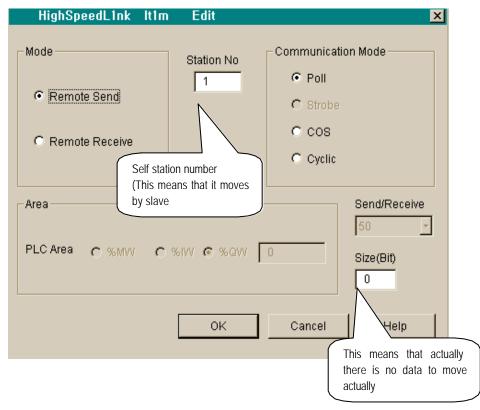
- HighSpeedL1nk It4m Edit × Mode Communication Mode Station No Poll 2 C Remote Send C Strobe Self area to store the data Remote Receive received from the opposite station The opposite station number Area Send/Receive 50 -PLC Area C %MVV C %IW C %QW 0.1.0 Size(Bit) 6 ОK Cancel Help
- Setting parameter for sending to GM6 station 2

• Display of finished setting ' high speed link 1' on master module

gh Speed Link 1				
Link Set Network Type: Slot: 0	GLOFA Dnet Self Station No:	0	Scan Time : Pollate :	5 mse 1 Edit
Entry List Num Type	Class	rom Area	To Area	Size
0 L0.X SC 1 R1.S PL 2 R1.R PL 3 R2.S PL 4 R2.R PL 5 6 7 8 9 10 11 12 13 14 15	5	%MVV10 %QVV0.1.0	2 0 6	<u>+</u> _
	Delete		opy	Edit
			Close	Help

- 2) Setting high speed link parameter on GM6 #1(station 1)
  - Setting ' Link set' on slave module

High Speed1Link Set	×	
Network Type	ок	
C GLOFA Fnet		
C GLOFA Mnet	Cancel	
C GLOFA Enet	Help	
C GLOFA Fdnet Network		
C GLOFA Fdnet Cable		
GLOFA Dnet		Scan time×Poll rate :Setting the cycle of
C GLOFA 422		sending/receiving
Slot Num Scan Time	5 msec	
Self-stat 1 Pollate	1	



HighSpeedL1nk	lt2m Edit	×
Mode C Remote Send C Remote Receive	Self station number	Poll Strobe COS Cyclic (Slave module)
Area PLC Area C %MW	⊂%IW	Id/Receive 50 - Size(Bit) 2
	ОК Са	ncel Help

• Display of finished setting ' high speed link 1' on slave module

gh Speed ⊢Link Set-					
	ork Type:	GLOFA D	net s	Rcan Time ·	5 mse
Slot:	0	Self Statior	i No: 1 F	Pollate -	1
					Edit
Entry List					
Num	Туре	Class	From Area	To Area	Size
0 L1.X 1 R1.S 2 R1.F 3 4 5 6 7 8 9 10 11 12 13 14 15	PL	5	%QVV0.1.0	02	4
		Dele	ete Cor	oy	Edit
				Close	Help

- 3) Setting parameter for high speed link on GM6 #2(station 2)
  - Setting ' link set on slave module

High Speed1Link Set	×
Network Type	
C GLOFA Fnet	ок
C GLOFA Mnet	Cancel
C GLOFA Enet	Help
C GLOFA Fdnet Network	
C GLOFA Fdnet Cable	
GLOFA Dnet	
C GLOFA 422	
Slot Num 1 Scan Time Self-stat 2 Pollate	5 rmsec

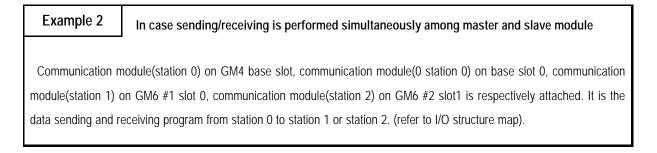
HighSpeedL1nk It1m	Edit		×
Self Mode Remote Send Remote Receive	station number	Communication Poll Strobe COS Cyclic	n Mode
Area PLC Area Data area to be sent to master module (Slave module)	%IW С %QW [ ОК	50 Cancel	Send/Receive 50 Size(Bit) 6 Help

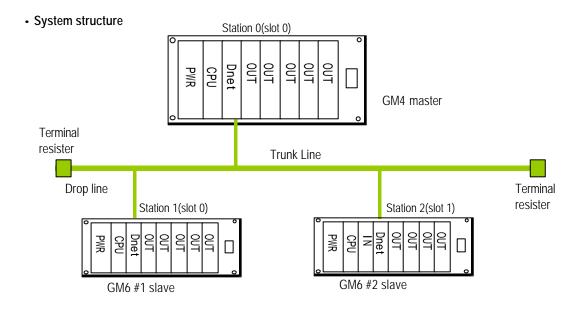
HighSpeedL1nk	lt2m Edit	<u>[</u>	×
Mode C Remote Send C Remote Receive	Station No 2	Communication Mode Poll Strobe COS Cyclic	
Area PLC Area C %MVV	C %IW © %QW	0 Send/Receive 50 Size(Bit) 0	There is no data received from the opposite station (master)
	OK	Cancel Help	

• Display finished setting ' highspeedlink 1' on slave module

ligh Speed Link 1					×
Link Set Network Type: Slot: 1	GLOFA Self Static	Dnet in No: 2	Scan Time <sup>-</sup> Pollate	5 mse 1 Edit	
Entry List	Class	From Area	To Area	Size	
0 L2.X SC 1 R2.S PL 2 R2.R PL 3 4 5 6 7 8 9 10 11 12 13 14 15	5	%MVV50	6 0		
	De	lete Co	opy	Edit	
			Close	Help	

#### 6.3.2 Communication among LGIS's master modules, #2

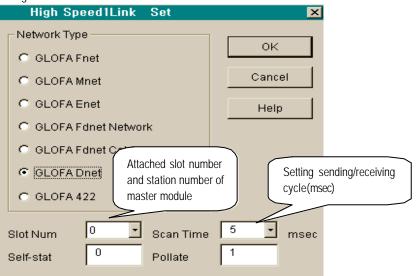




I/O Structure map

Sendin	g/receiving structure	Reading area	Storage area	Size(Byte)
	Sending:GM6 station1	%MW0	-	4
GM4(station0)	Receving:GM6 station 1	-	%QW0.1.0	2
(master)	Sending:GM6 station 2	%MW0	-	8
	Receving:GM6 station 2	-	%QW0.2.0	2
GM6(station1)	Sending:GM4 station 0	%MW100	-	2
(slave)	Receving:GM4 station 0	-	%QW0.1.0	4
GM6(station2)	Sending:GM4 station 0	%MW200	-	2
(Slave)	Receving:GM4 station 0	-	%QW0.2.0	8

- 1) Setting parameter of ' high speed link' on GM4(station 0)
  - Setting ' Link set' on master module



• Setting parameter for sending on GM6 station 1

HighSpeedL1nk	lt1m Edit	<u>×</u>
Mode Remote Send Remote Receive	Station No 1 Station number of the opposite station(slave)	Communication Mode Poll Strobe COS Cyclic
Area PLC Area (• %MW Self station's data area be sent to the oppos station(slave)	to	0 Send/Receive 50 Size(Bit) 4 Cancel Help

• Setting parameter for receiving GM6 station 1

HighSpeedL1nk	lt2m Edit	×
Mode	Station No	Communication Mode
C Remote Send	1	<ul> <li>Poll</li> <li>Strobe</li> </ul>
• Remote Receive	Station number of the opposite station(slave)	
		- Cycinc
Area		Send/Receive
PLC Area c %MVV	C 36 100 - 36 QW	0.1.0 Size(Bit)
Data storage area re	eceived	
from the opposite station	ок	Cancel Help

• Setting parameter for sending to GM6 station 2

HighSpeedL1nk	lt3m Edit		×	]
Mode Remote Send Remote Receive	Station No 2 The opposite station the data to be sent	Communication M Poll on's number	lode	
		C Cyclic		Data size to
- Area			end/Receive	be sent
PLC Area 🙃 %M/9/	с %IW с %QW [		ize (Bit) 8	
Self station s data area to be sent to the opposite station	ОК	Cancel	Help	

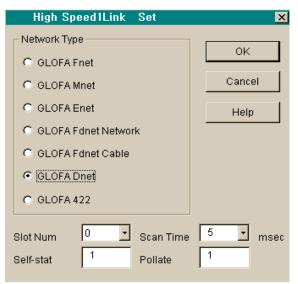
	HighSpeedL1nk	lt4m Edit		×
Data receiving on opposite station	Mode the Remote Send Remote Receive	Station No 2 Opposite station's number Data s receive	Communication Poll Strobe COS Cyclic storage area ed from the te station 0.2.0	
		ОК	Cancel	Help

• Setting parameter for sending on GM6 station 2

• Display of finished setting *high speed link* on Master module

Network Type:	GLOFA	Dnet	Scan Time :	5 mse
Slot: 0	Self Static	on No: 0 I	Pollate ·	1 Edit
Entry List Num Type	Class	From Area	To Area	Size
0 L0.X SC 1 R1.S PL 2 R1.R PL 3 R2.S PL 4 R2.R PL 5 6 7 8 9 10 11 12 13 14 15	5 5 5	%MVV0 %QVV0.1.0 %MVV0 %QVV0.2.0	4 2 2 2	
	De	elete Cor	ру	Edit

- 2) Setting parameter for *high speed link* on GM6 #1(station 1)
  - Setting ' link information' on slave module



HighSpeedL1nk	lt1m Edit		×
Mode Remote Send Remote Receive	Setting self station numbers to communicate with master module	Communication Poll C Strobe Oc Cos C Cyclic	n Mode
Area PLC Area row %MW Data are opposite	a to be sent to	100	Send/Receive 50 Size(Bit) 2
	OK	Cancel	Help

- HighSpeedL1nk It2m Edit × Mode Communication Mode Station No Poll 1 C Remote Send C Strobe C COS • Remote Receive Cyclic Area to storage data received from opposite station Send/Receive Area 50 -PLC Area ○ %IW ● %QW 0.1.0 ○ %MW Size(Bit) 4 ОK Cancel Help
- Setting parameter of receiving to master station

• Display finished setting ' *high speed link* 1' on slave module

gh Speed Link 1					
Link Set					
Network Type:	GLOFA E	Onet	Scan Time :	5 mse	
Slot: 0	Self Station	n No: 1	Pollate 1	1	
				Edit	
Entry List					
Num Type	Class	From Area	To Area	Size	
0 L1.X SC 1 R1.S PL 2 R1.R PL 3 4 5 6 7 8 9 10 11 12 13 14 15	5	%MVV100 %QVV0.1.0	2 4		
	Del	ete Co	py	Edit	]
			Close	Help	

### 3) Setting of *high speed link* parameter on GM6 #2(station 2)

• Setting ' Link information' on slave module

High Speed1Link Set	×
Network Type	
GLOFA Fnet	ок
C GLOFA Mnet	Cancel
O GLOFA Enet	Help
C GLOFA Fdnet Network	
C GLOFA Fdnet Cable	
GLOFA Dnet	
C GLOFA 422	
Slot Num 1 Scan Time	5 • msec
Self-stat 2 Pollate	1

• Setting parameter of sending to GM4 master station

HighSpeedL1nk	lt1m Edit	×
Mode Remote Send	Station No	Communication Mode
C Remote Receive	Setting station number of Self station	C COS C Cyclic
Area		Send/Receive
PLC Area © %MW	c%iwc%aw [	200 Size(Bit) 2
Data area to be sent to opposite station	ОК	Cancel Help

HighSpeedL1nk It2m Edit	×
Mode Remote Send Remote Receive Data storage area to be received from Master station PLC Area %MW % %W % %QW 0.2.0	n Mode Send/Receive 50 ¥ Size(Bit) 8
OK Cancel	Help

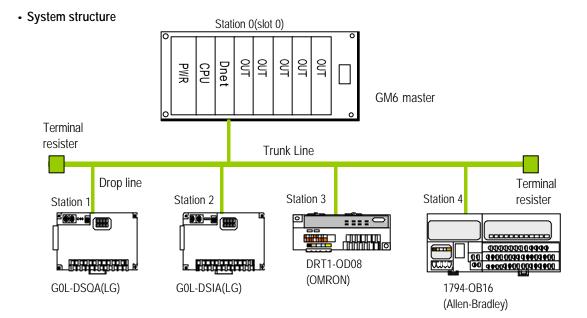
• Setting parameter of receiving to GM4 master station

• Display of finished parameter ' high speed link 1' on slave module

gh Speed Link 1 ⊤Link Set					
Network Type:	GLOFA	Dnet !	Rcan Time :	5 mse	
Slot: 1	Self Static	in No: 2 I	Pollate ·	1 Edit	]
Entry List Num Type	Class	From Area	To Area	Size	
0 L2.X SC 1 R2.S PL 2 R2.R PL 3 4 5 6 7 8 9 10 11 12 13 14 15	5	%MVV200 %QVV0.2.0	28		
	De	lete Cop	oy	Edit	
			Close	Help	

# 6.3.3 Communication among LGIS's and other company's slave modules

Example 3	
Communication	n master module(station 0) on GM6 base slot 0 is attached and send or receive data to single remote
modules with stat	tion number 1~4(refer to I/O structure map).



I/O structure map

Sending/Receiving structure		Reading area	Storage area	Size(Byte)
	Sending:G0L-DSQA(station 1)	%MW0	-	2
GM6(station 0)	Receiving:G0L-DSIA(station 2)	-	%QW0.1.0	2
(master)	Sending:DRT1-OD08(station 3)	%MW100	-	1
	Sending:1794-OB16(station 4)	%MW200	_	4

- 1) Setting of *high speed link* parameter on GM6(station 0)
  - Setting of 'Link information' on master module

High Speed1Link Set	×
Network Type	
O GLOFA Fnet	ОК
O GLOFA Mnet	Cancel
O GLOFA Enet	Help
C GLOFA Fdnet Network	
O GLOFA Fdnet Cable	
GLOFA Dnet	
C GLOFA 422	
Slot Num 0 Scan Time Self-stat 0 Pollate	5 rmsec

• Setting of sending parameter to station 1(GOL-DSQA)

				4
Mode	Station No	Communicatio	n Mode	
Remote Send		<ul> <li>Poll</li> <li>Strobe</li> </ul>		
C Remote Receive	Station number of slave module to send data	e C cos C Cyclic		
Area			Send/Receive	
PLC Area 🙃 %MVV	c%iwc%aw[	0	50 - Size(Bit) 2	Sending data to GOL-D data size must be set 2 ( (Default)
	ок	Cancel	Help	

- HighSpeedL1nk It2m Edit X Mode Communication Mode Station No Poll 2 C Remote Send C Strobe Station number of GOL-DSIA C COS Remote Receive  $\bigcirc$  Cyclic Storage area of data received from GOL-DSIA Area Send/Receive 50 -PLC Area C %IW C %QW 0.1.0 ○ %MVV Size(Bit) Receiving data to GOL-DSIA, data size must be set 2 bytes 2 (Default) ОK Cancel Help
- Setting of receiving parameter to station 2(G0L-DSIA)

• Setting of sending parameter to station 3(DRT1-OD08)

HighSpeedL1nk	lt3m Edit	×	
Mode Remote Send Remote Receive	Station No 3 Station number DRT1-OD08	Communication Mode Poll Strobe of COS Cyclic	
Area PLC Area ເຈ %MVV	C %IW C %QW	Send/Receive       50       Setting of data size to be sent to DRT1-OD08       1       (1 byte)	
	ОК	Cancel Help	

• Setting of sending parameter to station 4(1794-OB16)

HighSpeedL1nk	lt4m	Edit			×
Mode		Station No	Communicatio	on Mode	
Remote Send		4	Poll     Strobe		
C Remote Receive			C cos		
			C Cyclic		
Area				Send/Receive	
PLC Area 💿 %MVV	C %I\	N C %QW	200	Size(Bit)	Setting data size sending to 1794-OB1 (4 bytes)
		OK	Cancel	Help	

• Display of finished setting ' high speed link 1' on master module

High Speed Link 1					×
Network Type:	GLOFA	Dnet 9	Rcan Time :	5 mse	•
Slot: 0	Self Statio	in No: O F	Pollate 1	1	
				Edit	
Entry List					
Num Type	Class	From Area	To Area	Size	_
0 L0.X SC 1 R1.S PL 2 R2.R PL 3 R3.S PL 4 R4.S PL 5 6 7 8 9 10 11 12 13 14 15	5 5 5	%MVV0 %QVV0.1.0 %MVV100 %MVV200	2 2 1 4		-
	De	lete Cop	ру	Edit	
			Close	Help	

- 2) Setting of *High speed link* parameter on single type remote(station 1): No parameter setting
- 3) Setting of *High speed link* parameter on single type remote(station 2)
   : No parameter setting
- 4) Setting of *High speed link* parameter on single type remote(station 3): No parameter setting
- 5) Setting of *High speed link* parameter on single type remote(station 4) : No parameter setting

#### Remark

1) Single type slave(remote) module is not needed additional parameter setting but just only with it s own station number and Communication it s possible to communicate with master.