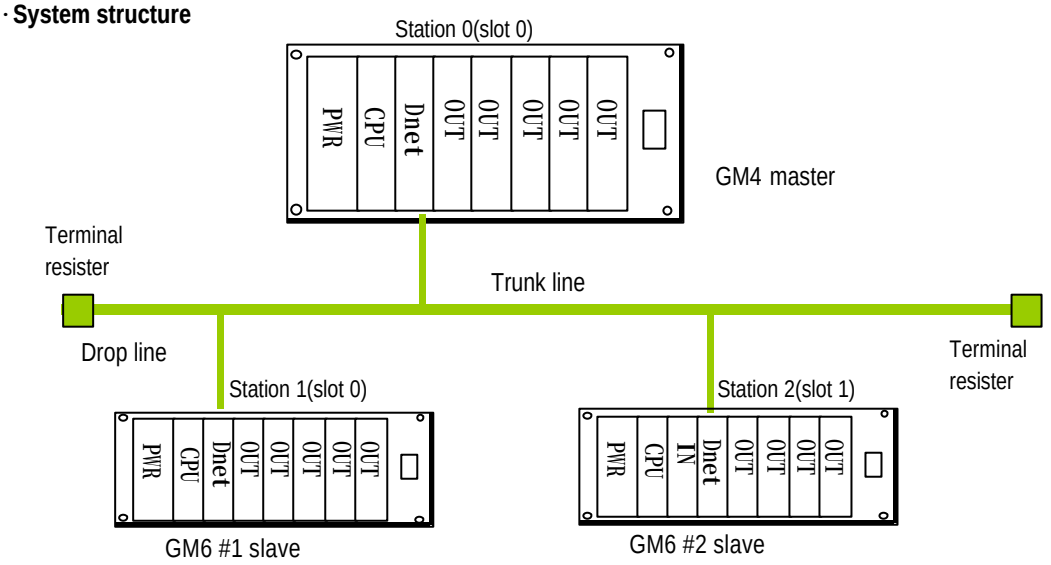
6.3 Program examples

6.3.1 Communication among LGIS's master module, #1

Example 1 **In case sending or receiving individually performed among master and slave module.**

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).

· **System structure**

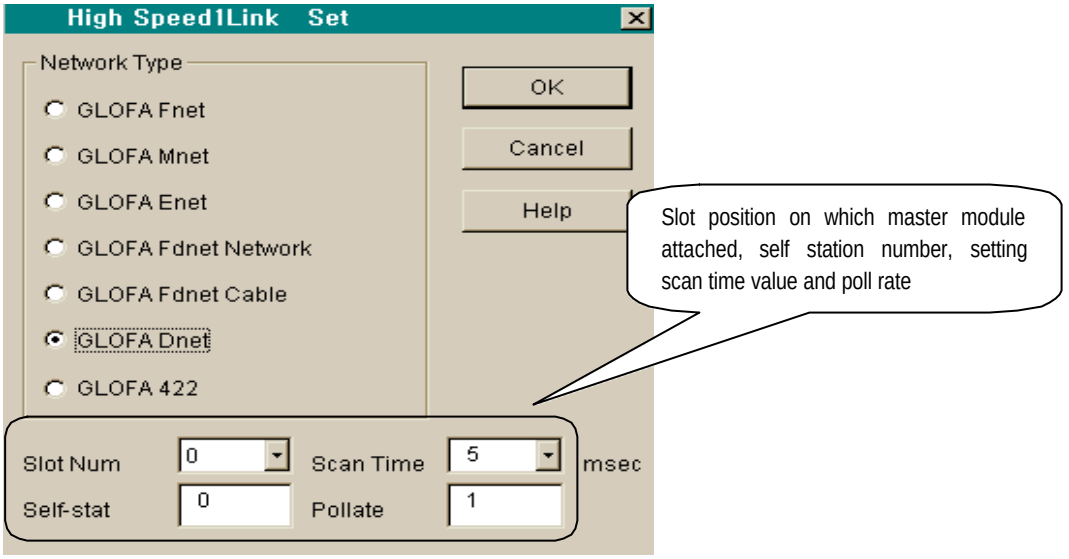


· **I/O structure map**

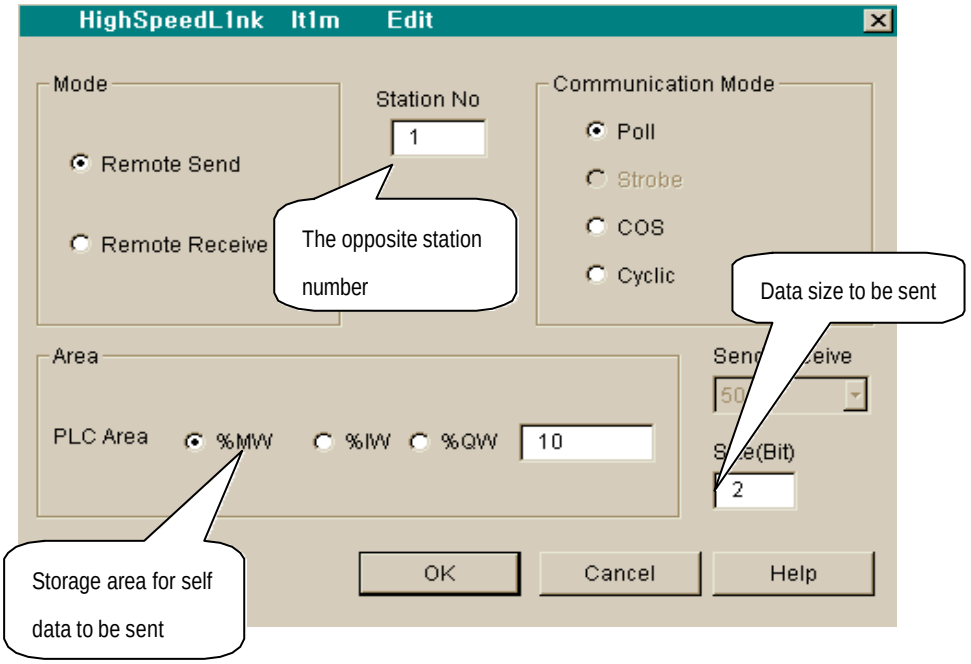
Sending/Receiving structure		Reading area	Storage area	Size(Byte)
GM4(station 0) (Master)	Sending: GM6 station 1	%MW10	-	2
	Receiving:GM6 station 2	-	%QW0.1.0	6
GM6(Station 1) (Slave)	Receiving:GM4 station 0	-	%QW0.1.0	2
GM6(station2) (Slave)	Sending:GM4 station 0	%MW50	-	6

1) Setting of *high speed link* parameter on GM4(Station 0)

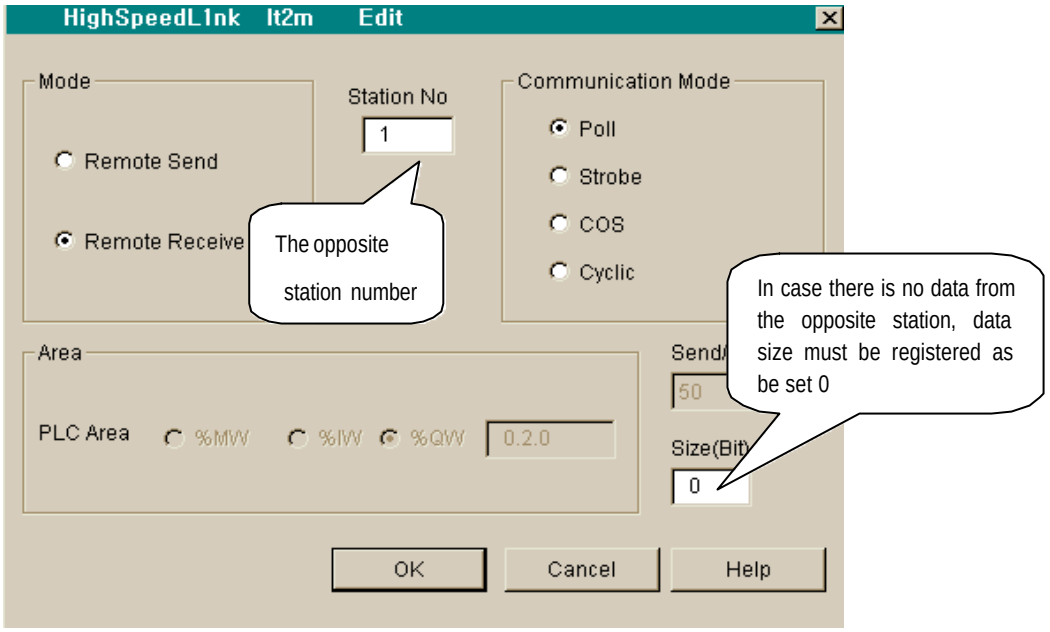
- Setting 'Link set' on master module



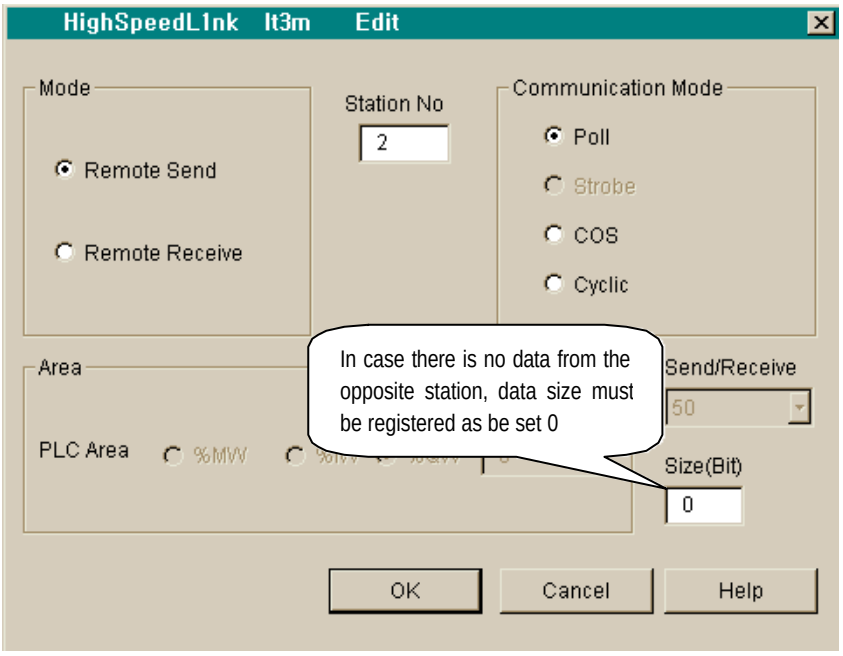
- Setting of parameter for sending to GM6 station 6



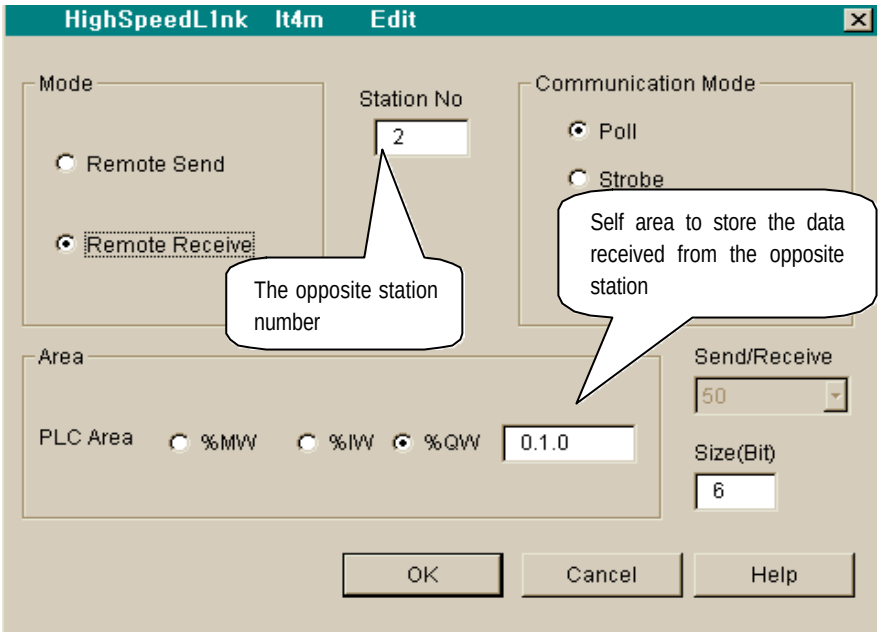
• Setting receiving parameter from GM6 station 1



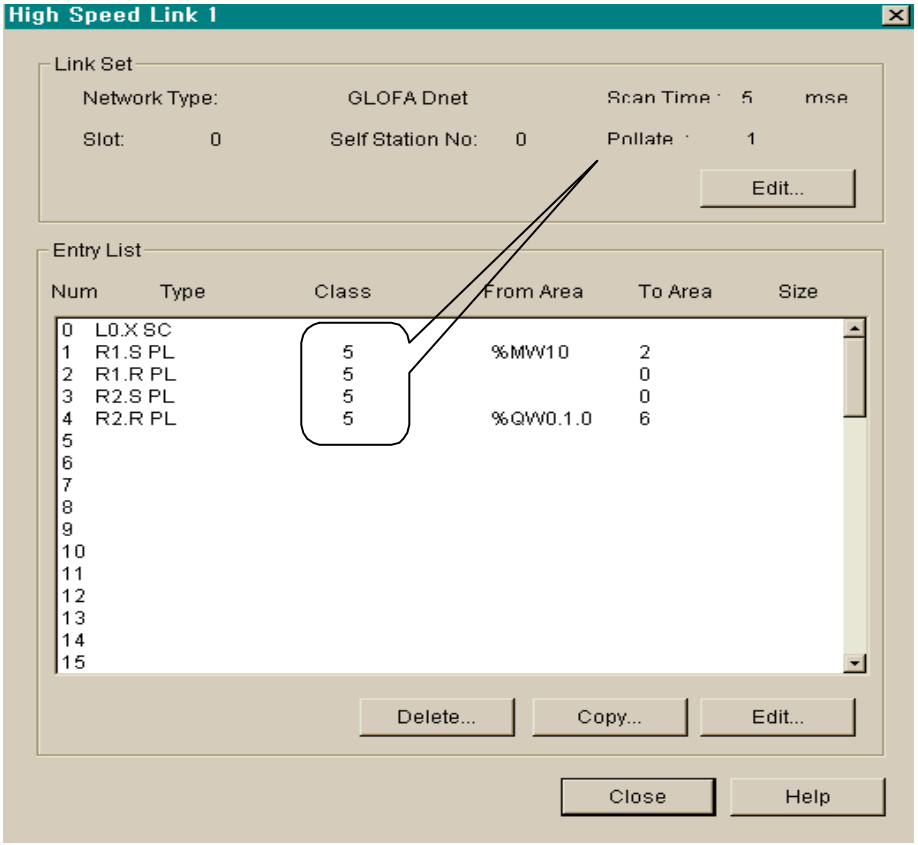
• Setting parameter for sending to GM6 station 2



• Setting parameter for sending to GM6 station 2

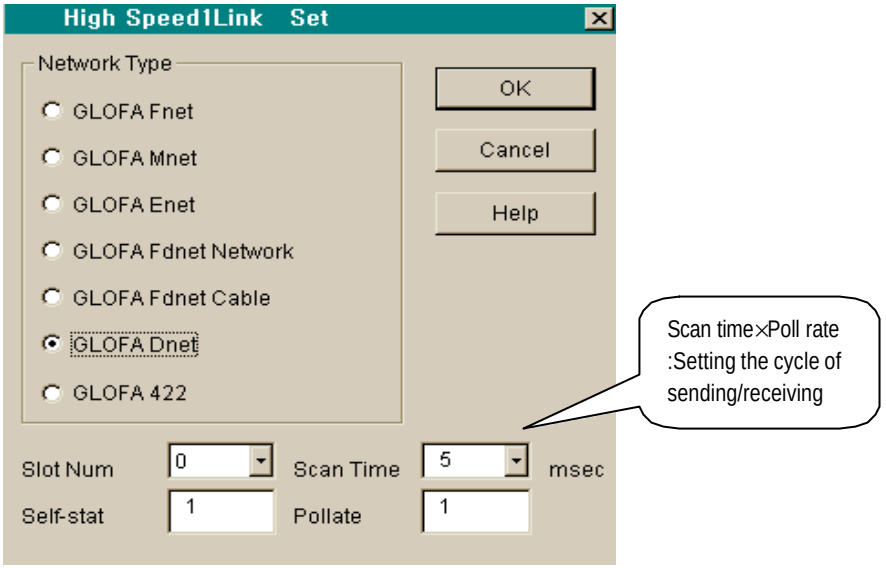


• Display of finished setting '*high speed link* 1' on master module

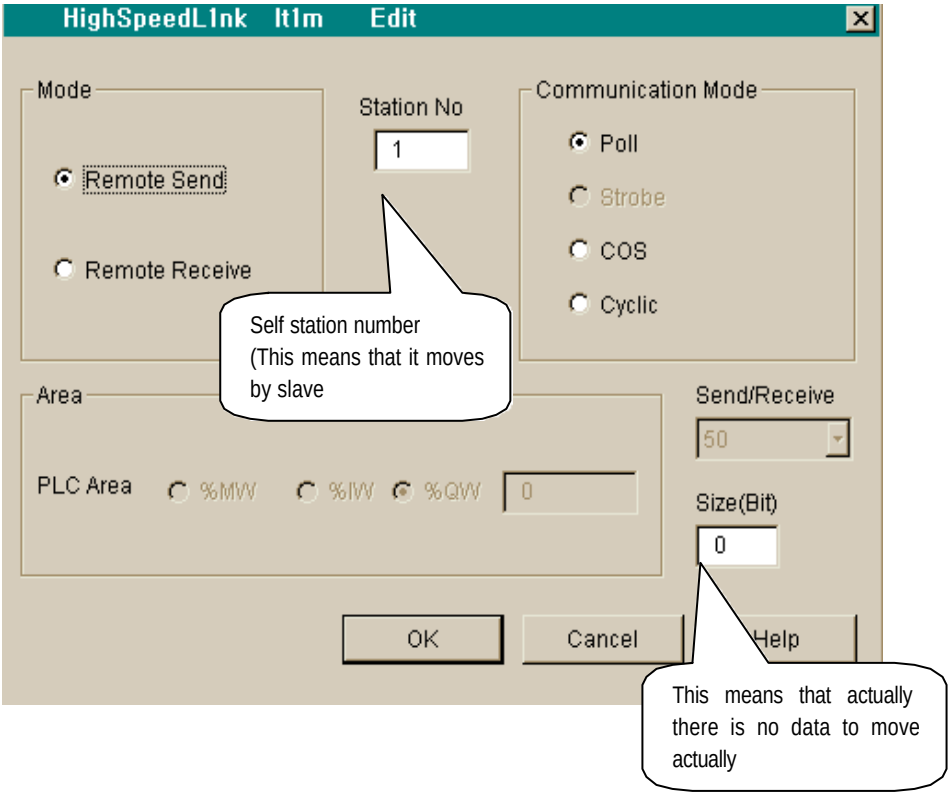


2) Setting *high speed link* parameter on GM6 #1(station 1)

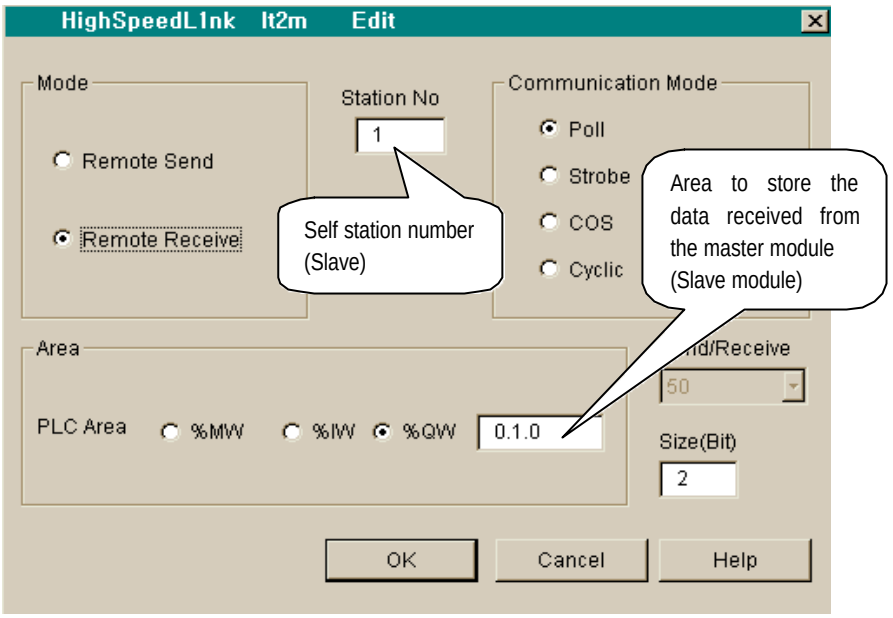
- Setting 'Link set' on slave module



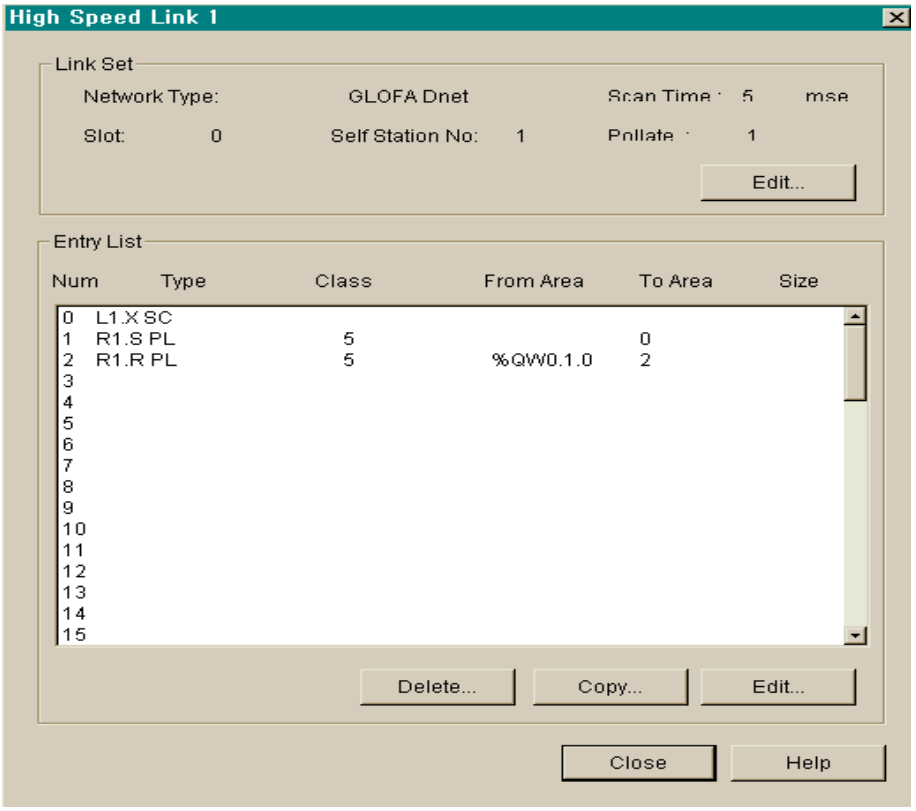
- Setting parameter for sending to GM4 master station



• Setting parameter for sending to GM4 master station

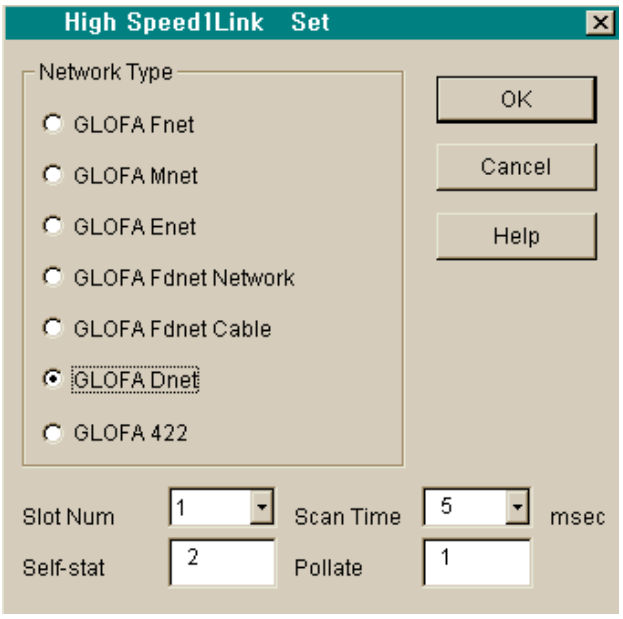


• Display of finished setting '*high speed link* 1' on slave module

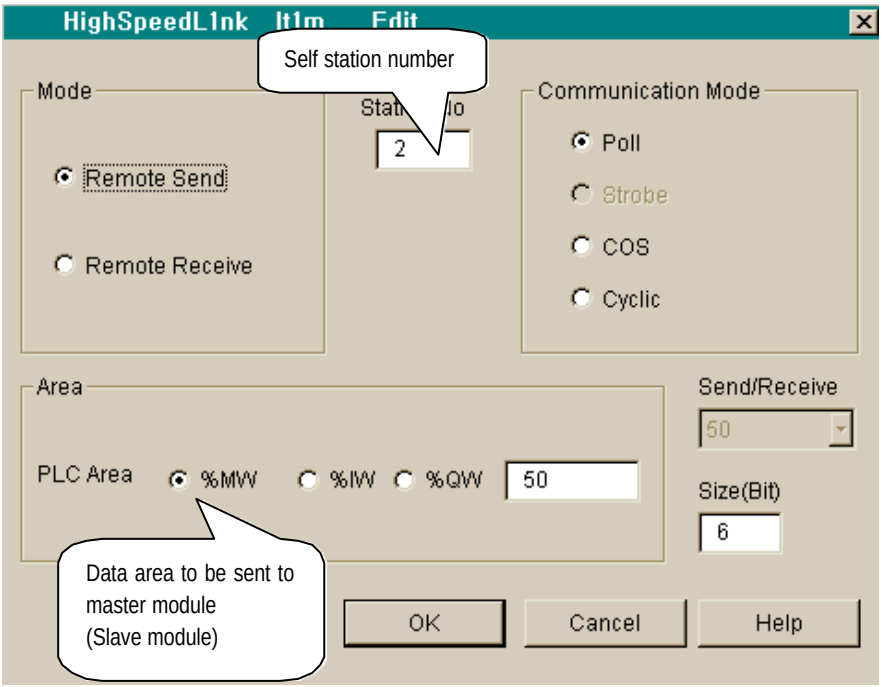


3) Setting parameter for *high speed link* on GM6 #2(station 2)

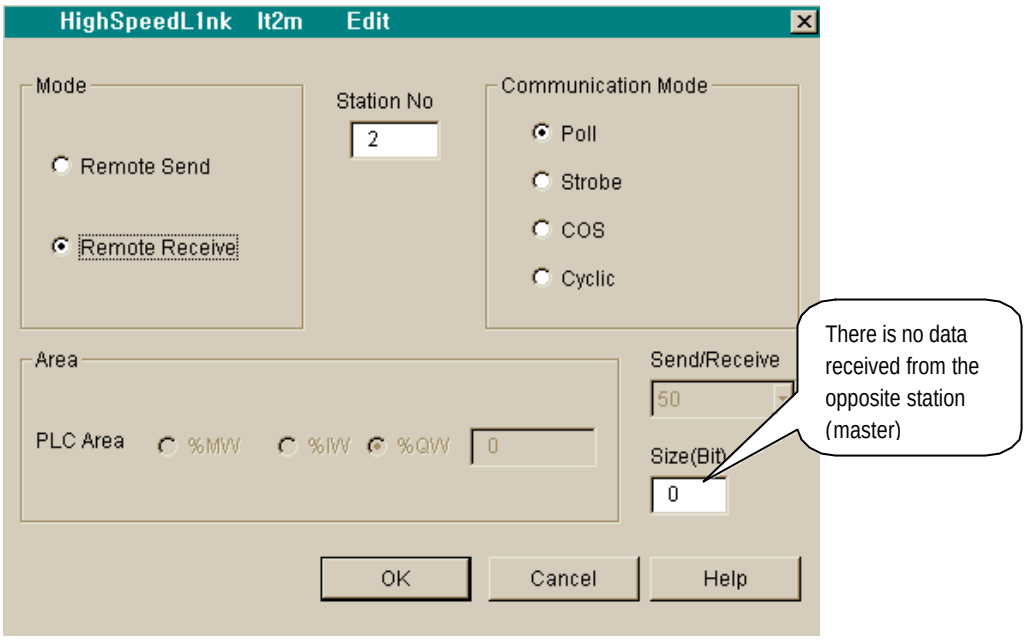
- Setting 'link set' on slave module



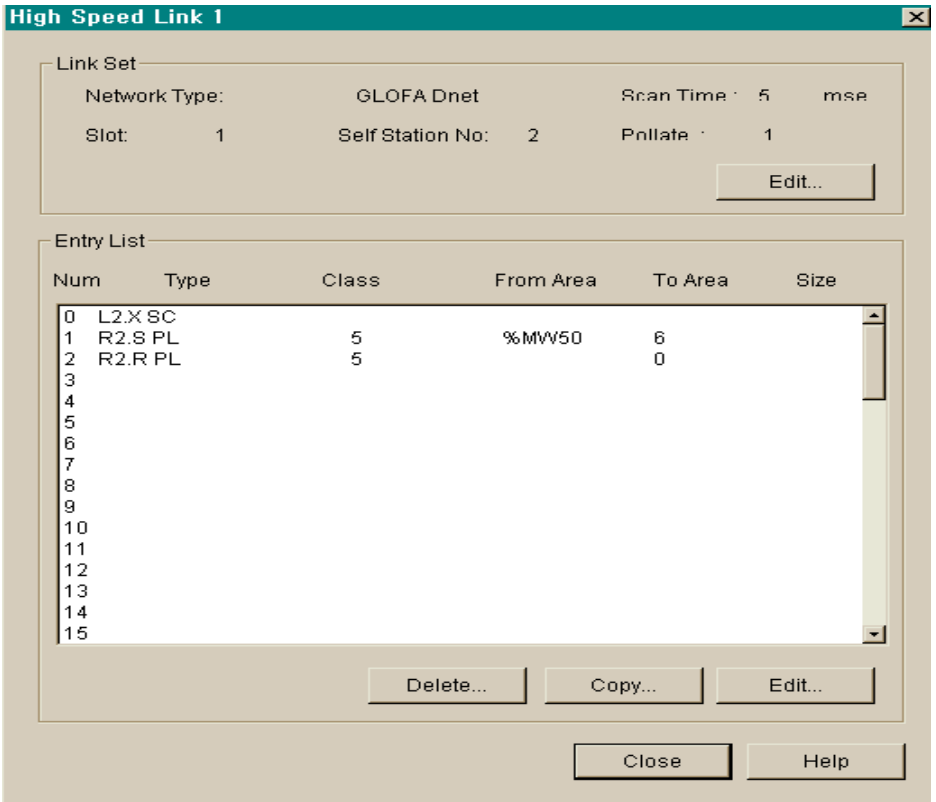
- Setting parameter for sending to GM4 master station



• Setting parameter for sending to GM4 master station



• Display finished setting ‘highspeedlink 1’ on slave module

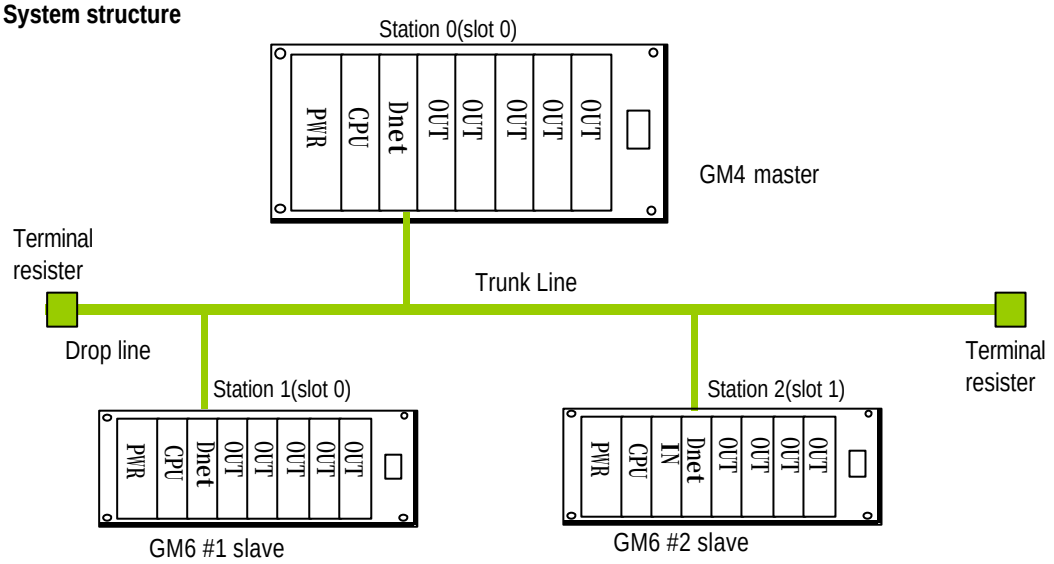


6.3.2 Communication among LGIS's master modules, #2

Example 2 **In case sending/receiving is performed simultaneously among master and slave module**

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).

· **System structure**

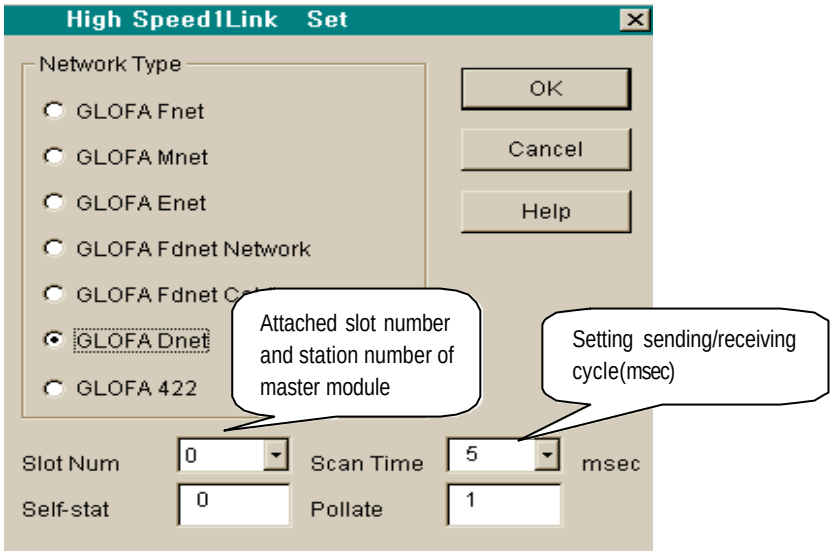


· **I/O Structure map**

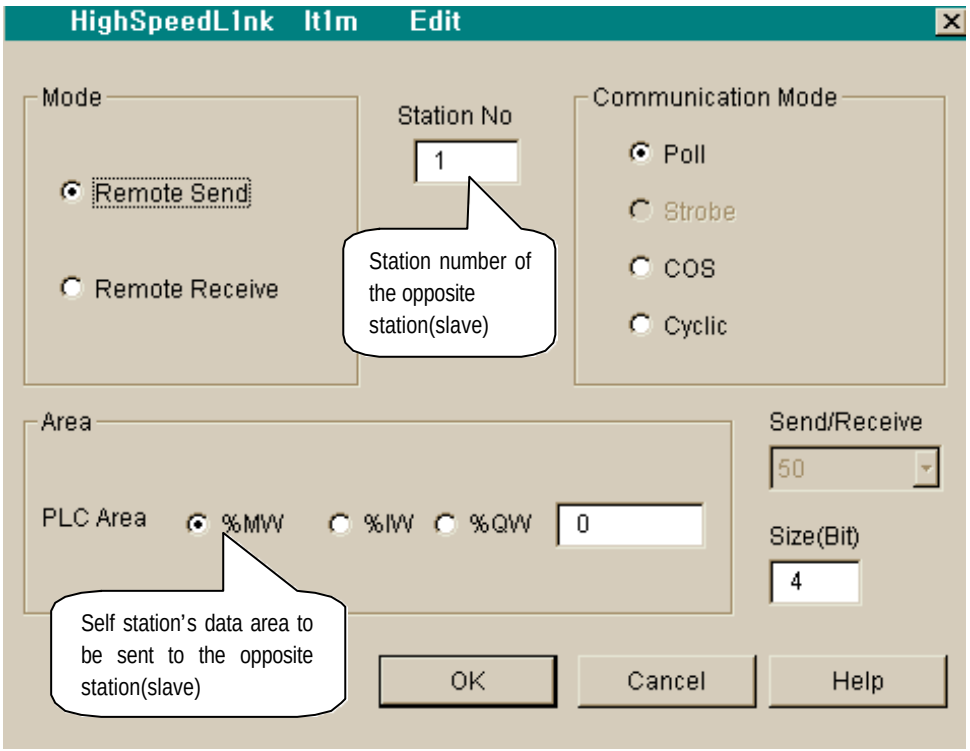
Sending/receiving structure		Reading area	Storage area	Size(Byte)
GM4(station0) (master)	Sending:GM6 station1	%MW0	-	4
	Receving:GM6 station 1	-	%QW0.1.0	2
	Sending:GM6 station 2	%MW0	-	8
	Receving:GM6 station 2	-	%QW0.2.0	2
GM6(station1) (slave)	Sending:GM4 station 0	%MW100	-	2
	Receving:GM4 station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

1) Setting parameter of '*high speed link*' on GM4(station 0)

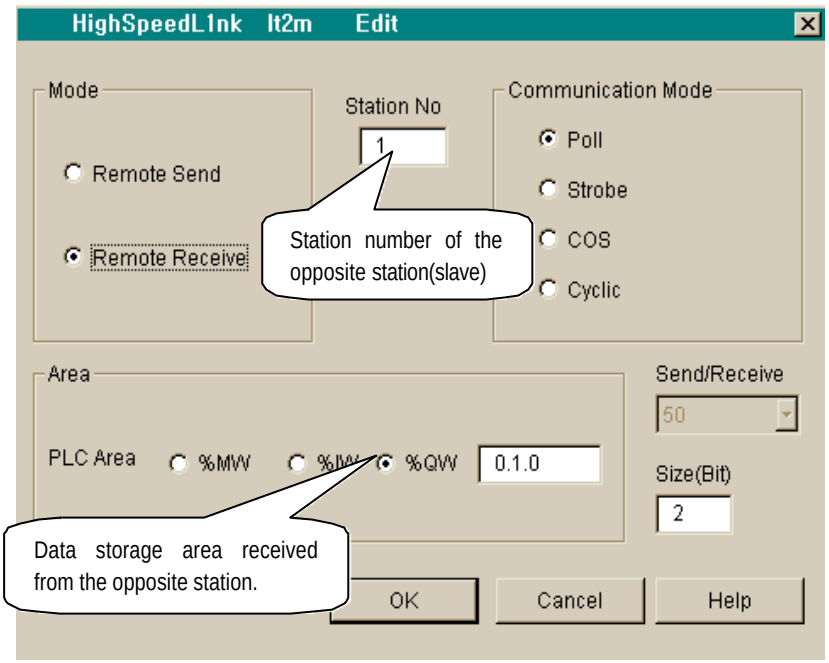
- Setting 'Link set' on master module



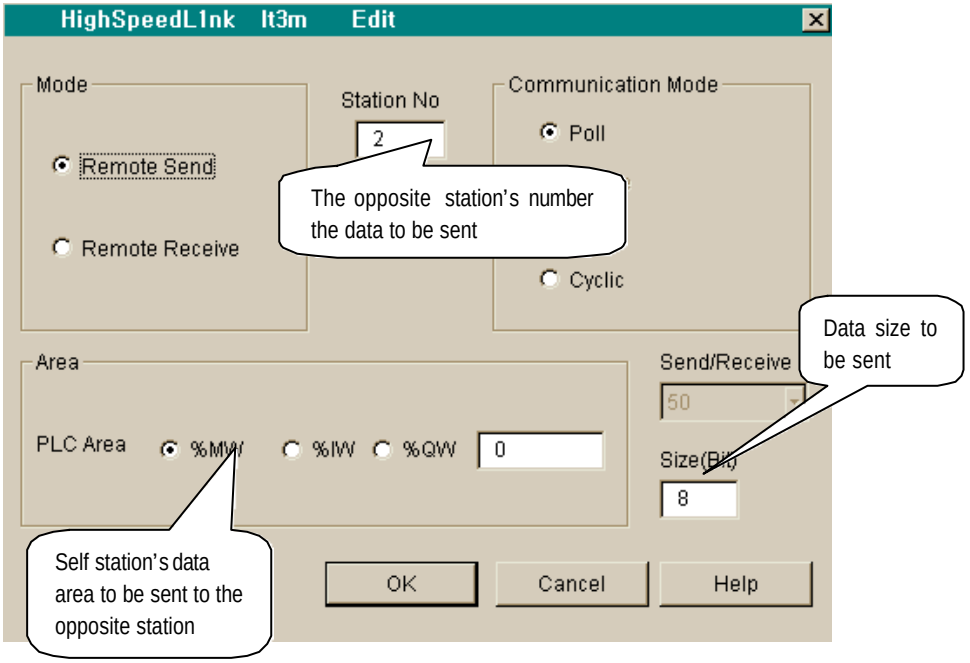
- Setting parameter for sending on GM6 station 1



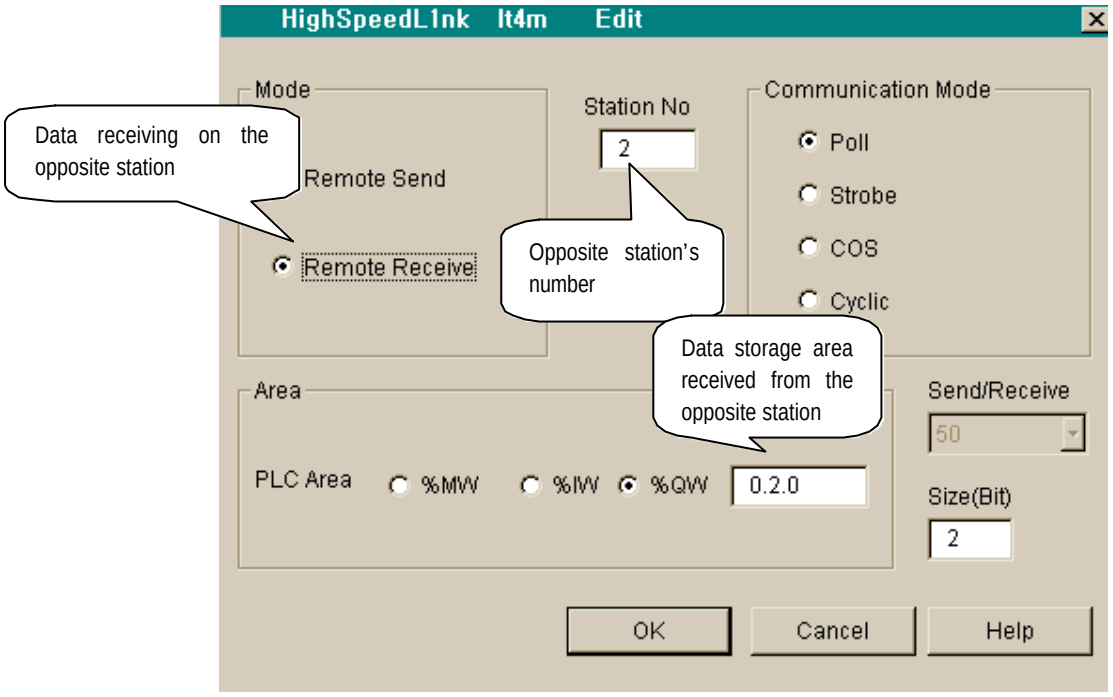
• Setting parameter for receiving GM6 station 1



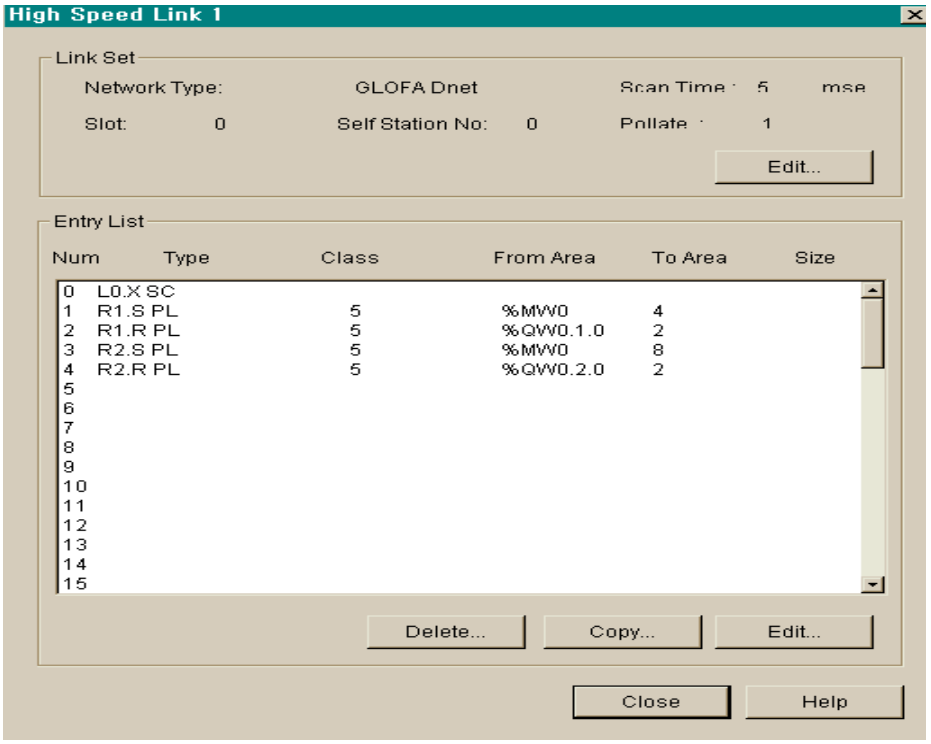
• Setting parameter for sending to GM6 station 2



• Setting parameter for sending on GM6 station 2

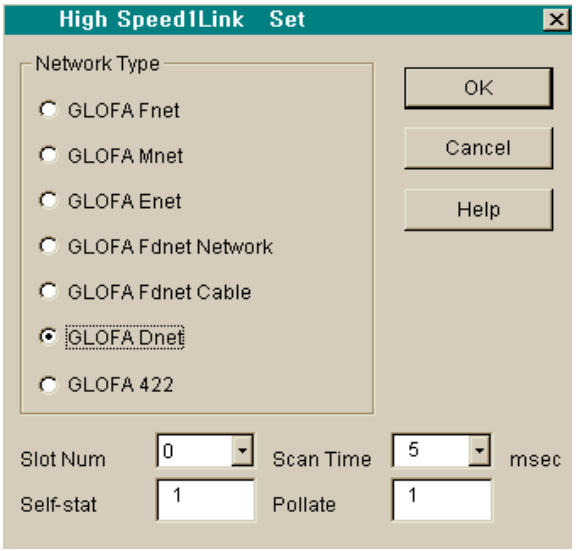


• Display of finished setting *high speed link* on Master module

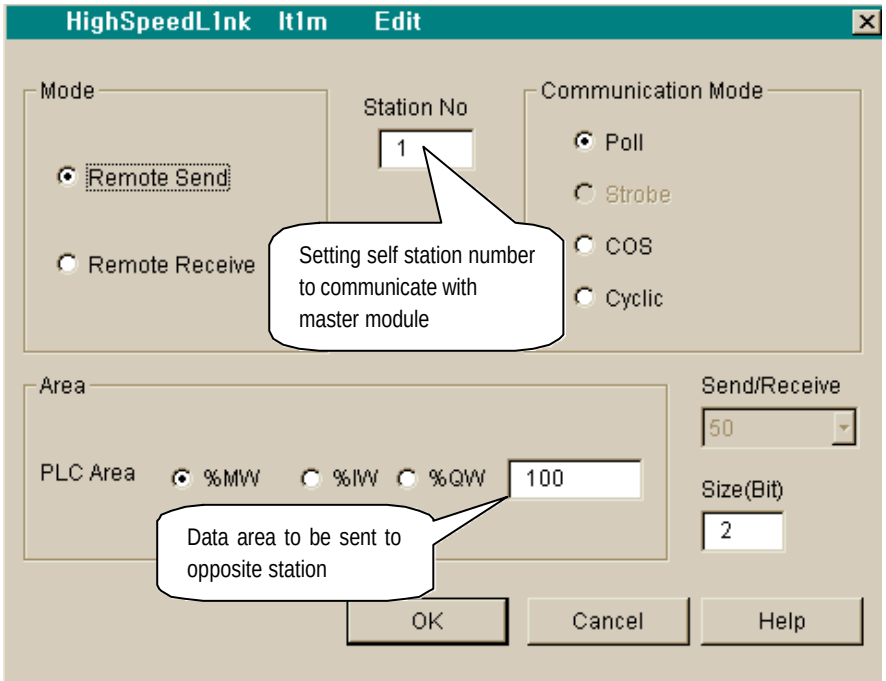


2) Setting parameter for *high speed link* on GM6 #1(station 1)

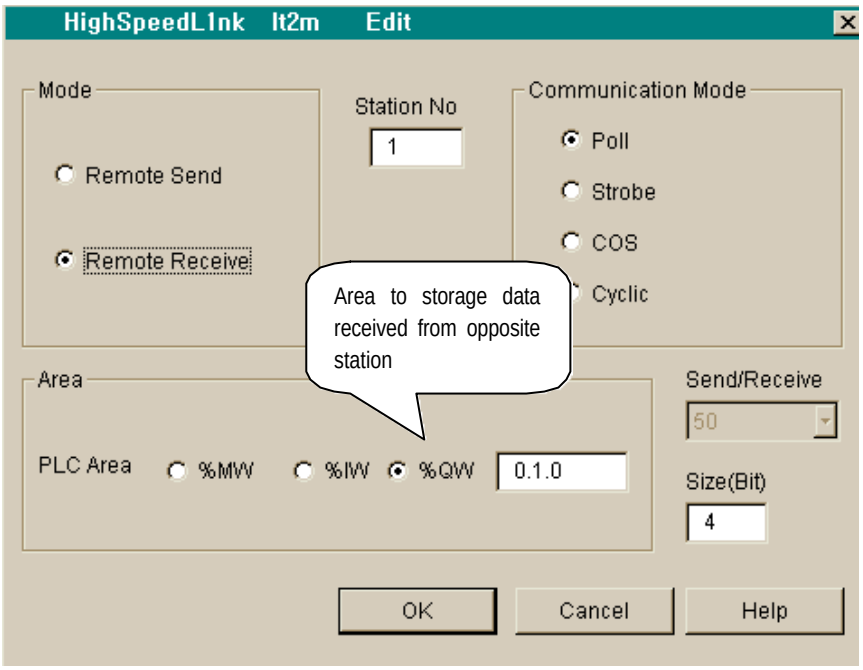
- Setting 'link information' on slave module



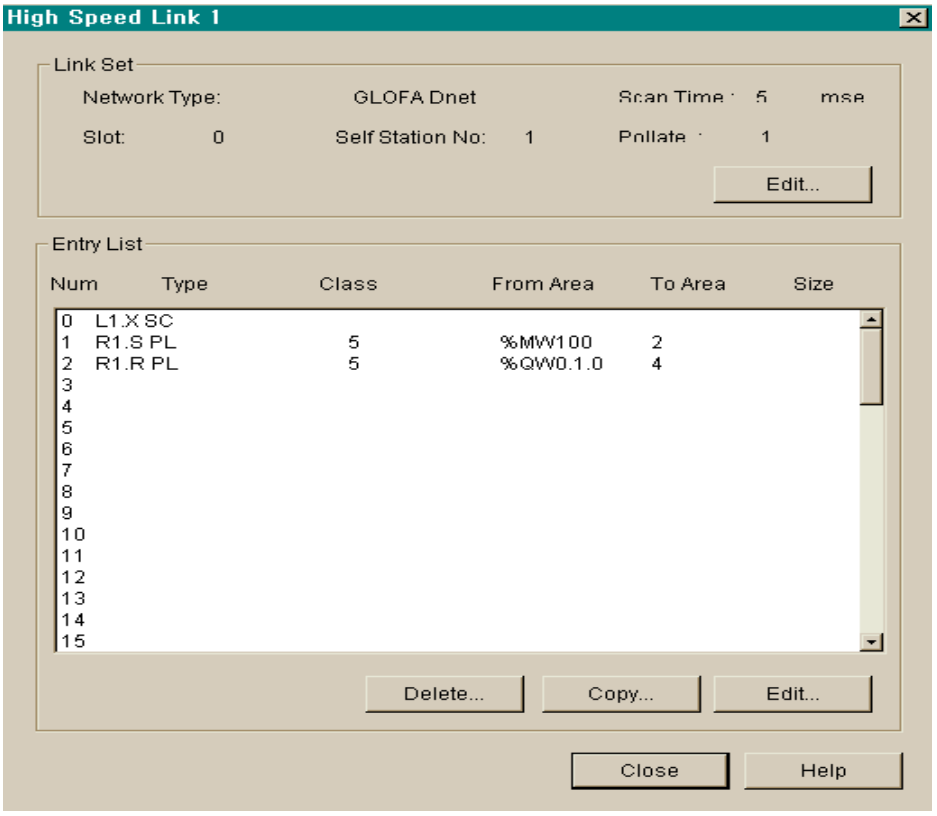
- Setting parameter of sending to GM4 master station



• Setting parameter of receiving to master station

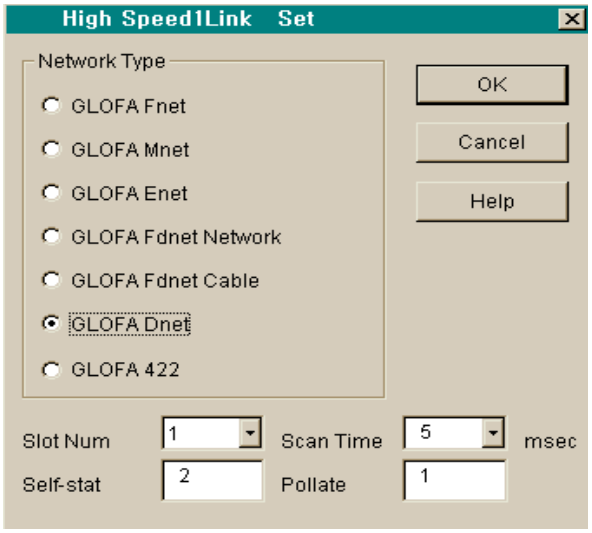


• Display finished setting '*high speed link* 1' on slave module

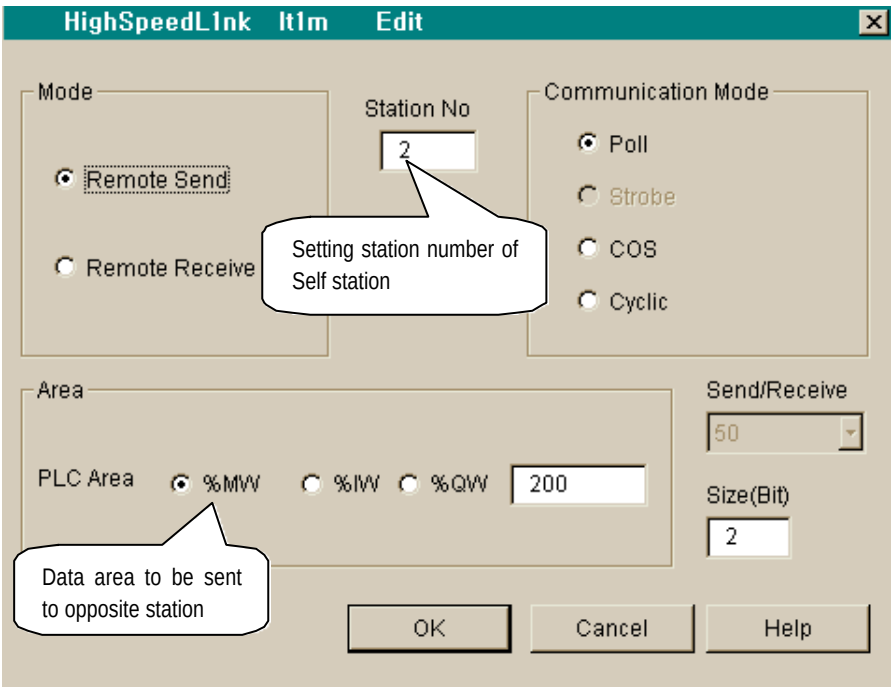


3) Setting of *high speed link* parameter on GM6 #2(station 2)

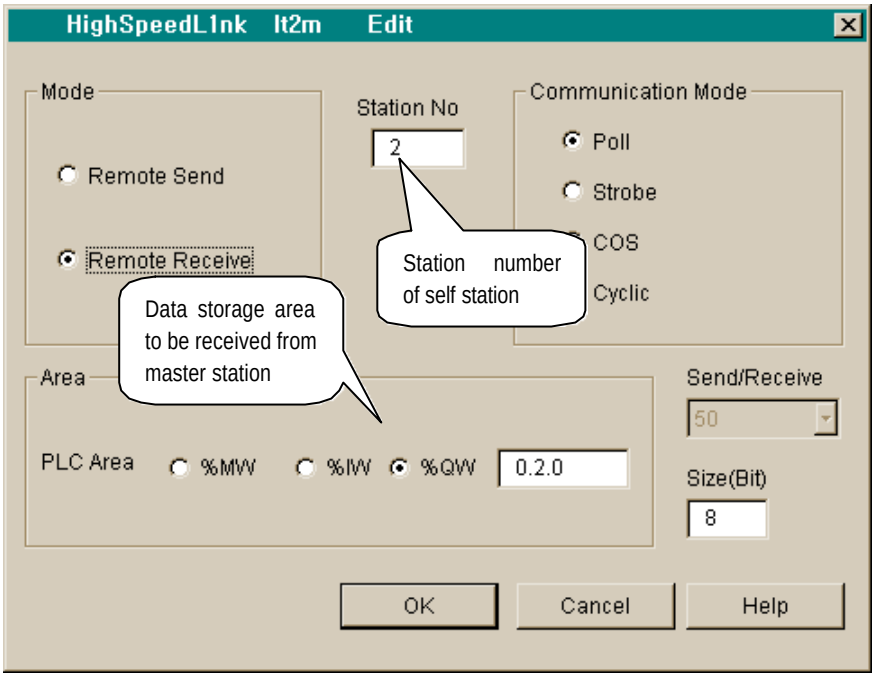
- Setting 'Link information' on slave module



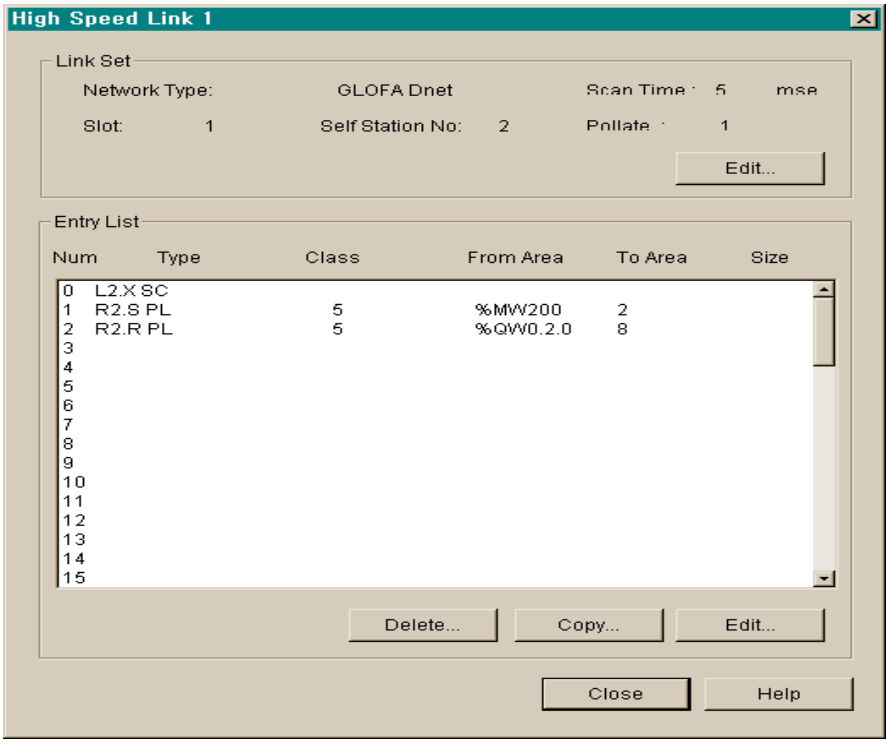
- Setting parameter of sending to GM4 master station



• Setting parameter of receiving to GM4 master station



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

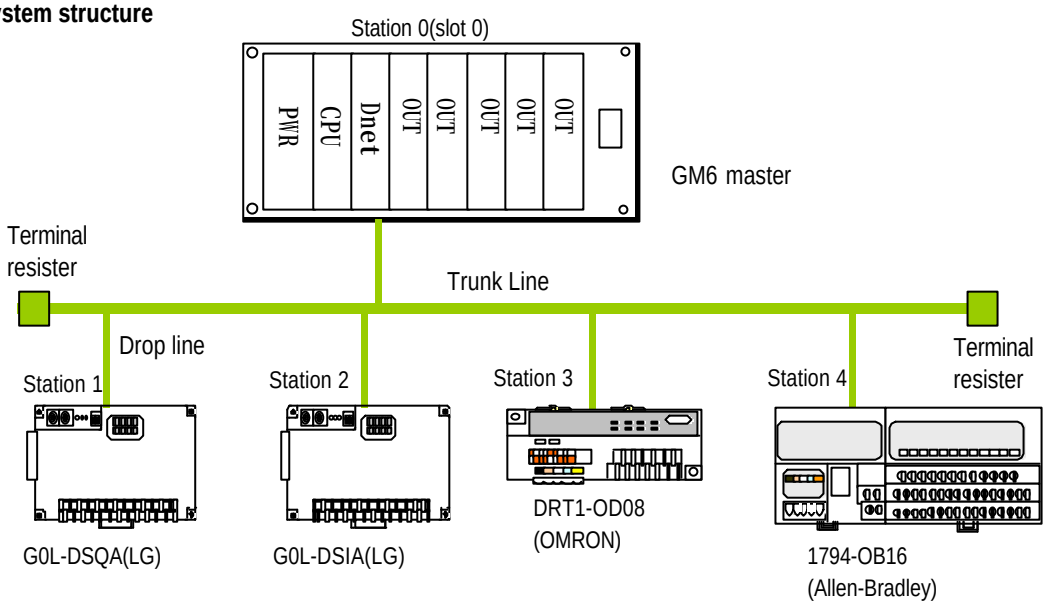


6.3.3 Communication among LGIS's and other company's slave modules

Example 3

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

· **System structure**

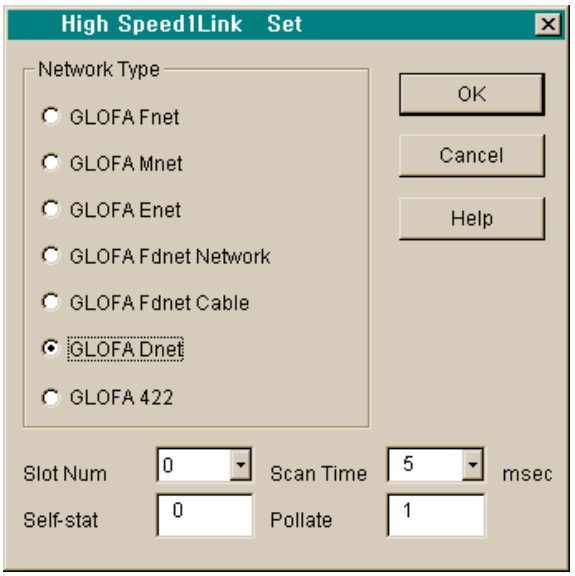


· **I/O structure map**

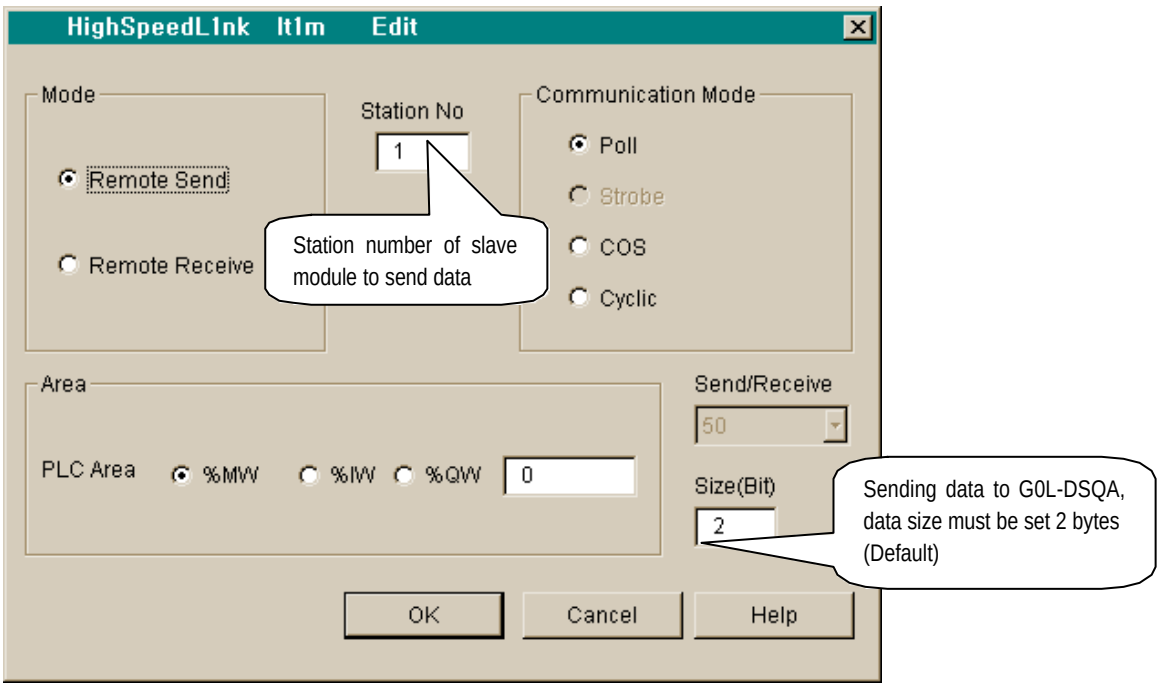
Sending/Receiving structure		Reading area	Storage area	Size(Byte)
GM6(station 0) (master)	Sending:G0L-DSQA(station 1)	%MW0	-	2
	Receiving:G0L-DSIA(station 2)	-	%QW0.1.0	2
	Sending:DRT1-OD08(station 3)	%MW100	-	1
	Sending:1794-OB16(station 4)	%MW200	-	4

1) Setting of *high speed link* parameter on GM6(station 0)

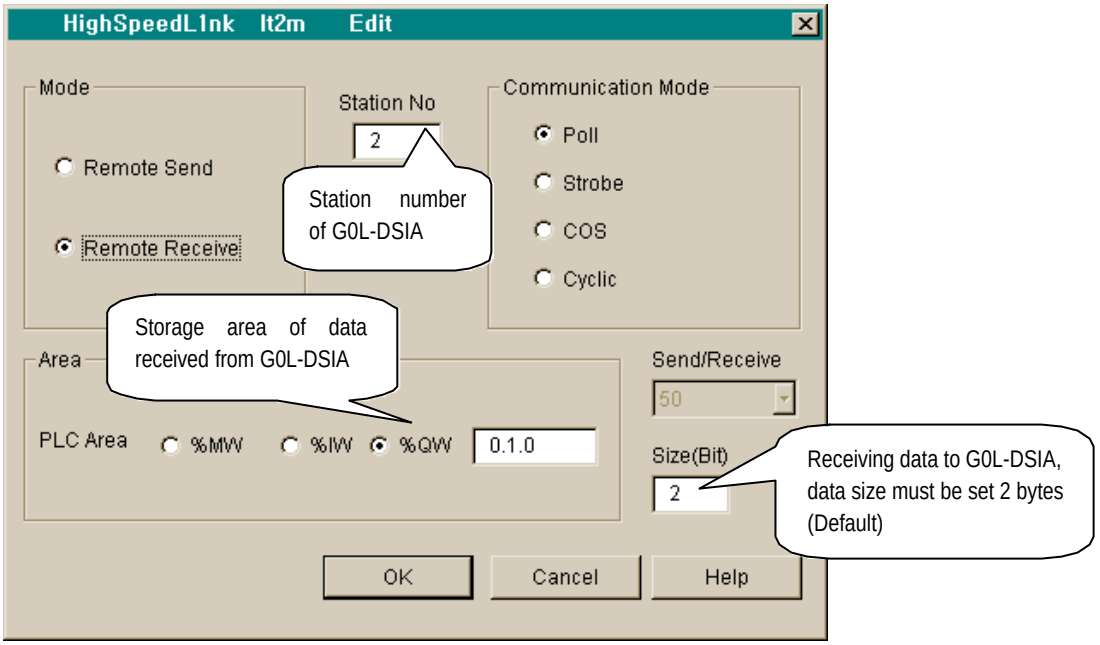
- Setting of 'Link information' on master module



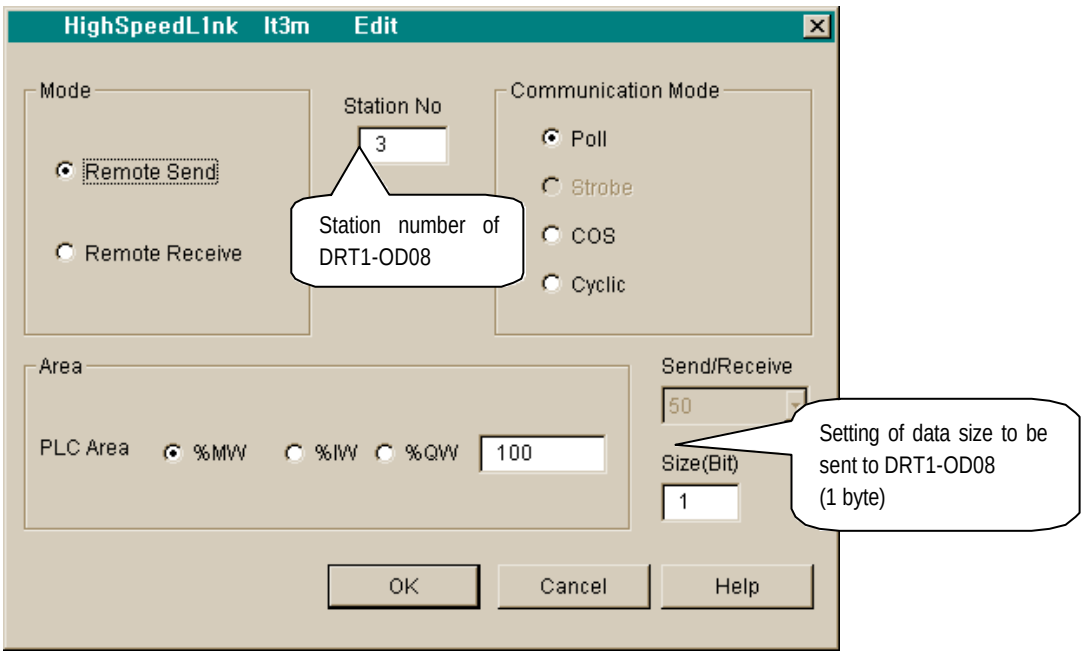
- Setting of sending parameter to station 1(G0L-DSQA)



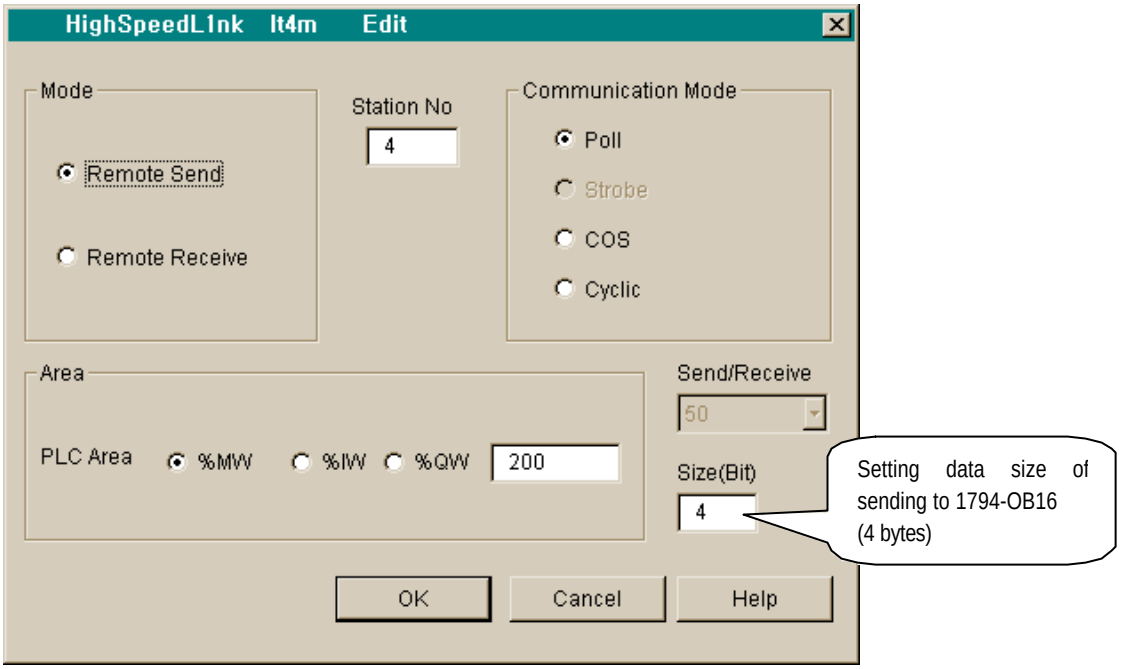
• Setting of receiving parameter to station 2(G0L-DSIA)



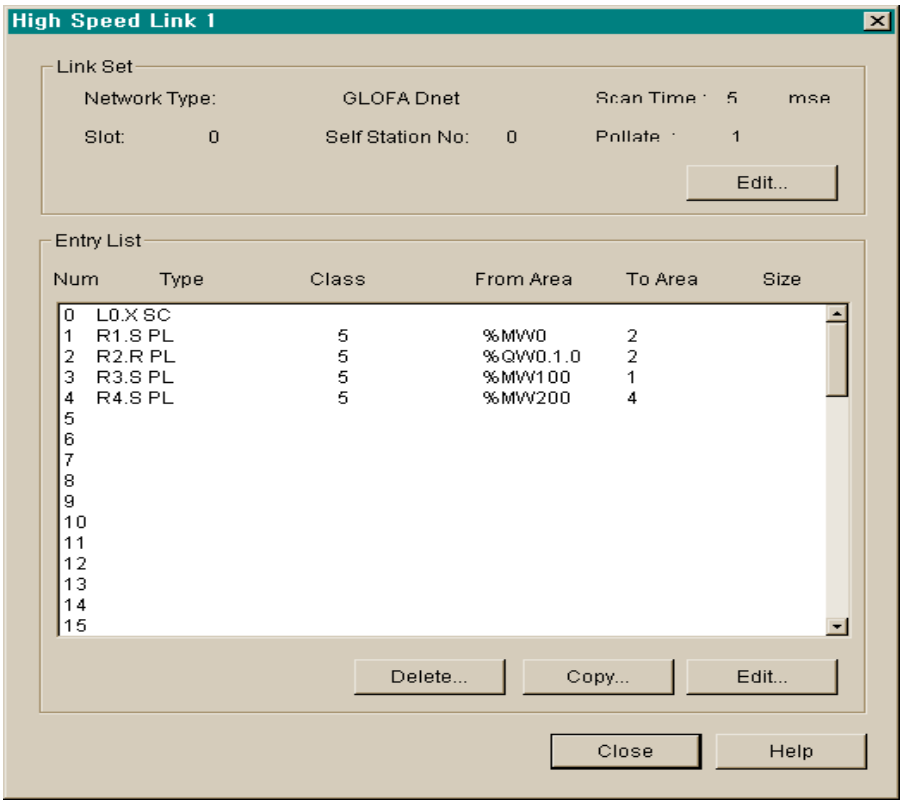
• Setting of sending parameter to station 3(DRT1-OD08)



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



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



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.