OMRON Ethernet

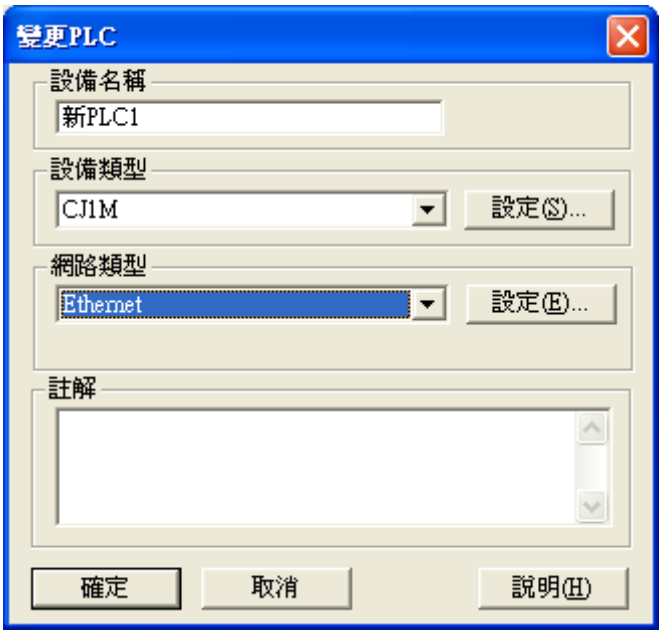
Supported Series: OMRON CJ Series, CS Series, CP Series +Ethernet Module. (Ethernet FINS)
Website: http://www.omron.com/
*On initialization, switch from RUN MODE to MONITOR MODE.

HMI Setting:

Parameters	Recommended	Options	Notes
PLC type	OMRON Ethernet		
PLC I/F	Ethernet (UDP)		
Port no.	9600		
PLC sta. no.	0		

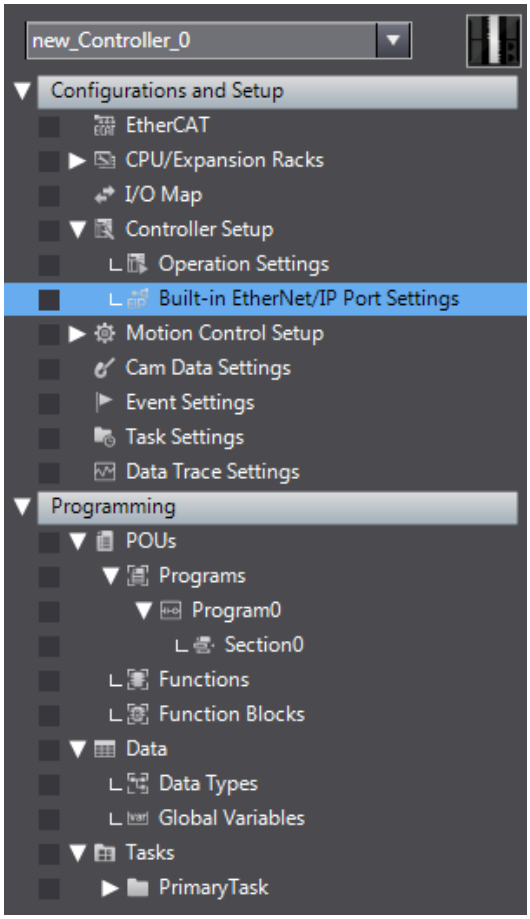
PLC Setting:

Communication mode	Ethernet (UDP) protocol

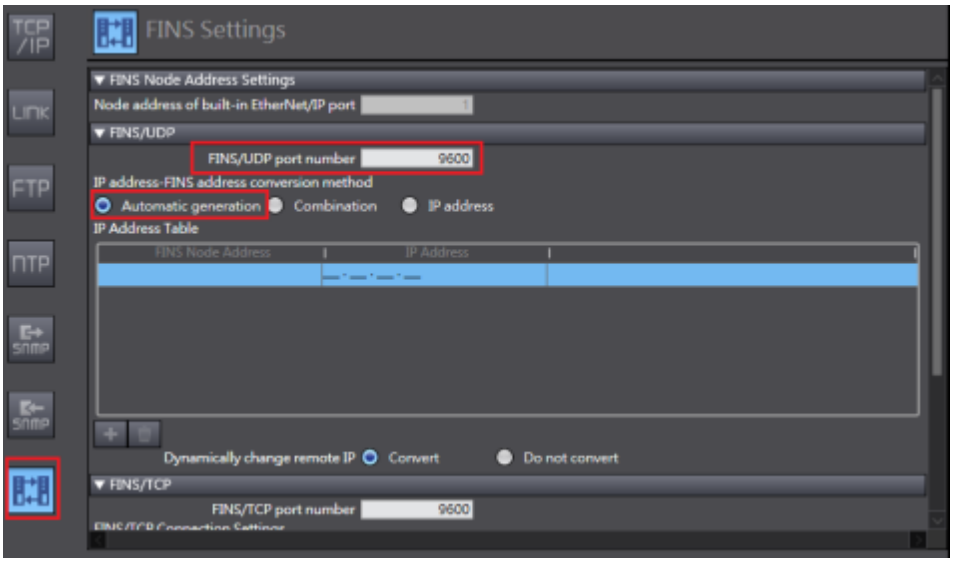


How to connect OMRON NJ and NX Series:

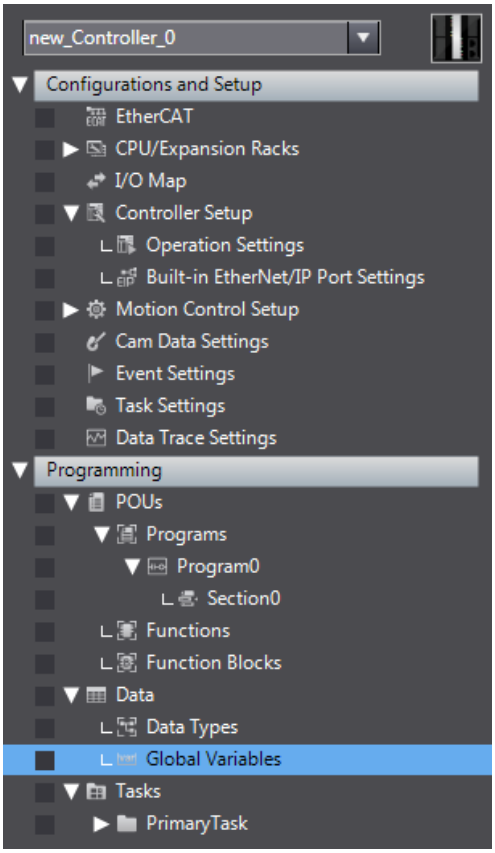
1. In the tree menu on the left hand side, select Controller Setup » Built-in EtherNet/IP Port Settings.



2. Click the button (FINS) marked in the red frame below, and enter 9600 as the FINS/UDP port number. Select Automatic Generation as conversion method.



3. Select Global Variables to set PLC address.



4. Please note that the setting marked in red frame below should be an absolute address mapping to Omron Etherne.

Name	Data Type	Initial Value	AT	Retain	Constant	Network Publish	Comment
TestW0	WORD		%W0	☐	☐	Do not publish	

Device Address:

Bit/Word	Device type	Format	Range	Memo
B	CIO_Bit	DDDDDdd	0 ~ 3276715	Channel I/O (CIO)
B	W_Bit	DDDDDdd	0 ~ 3276715	Work Area (WR)
B	H_Bit	DDDDDdd	0 ~ 3276715	Holding Area (HR)
B	A_Bit	DDDDDdd	0 ~ 3276715	Auxiliary Relay (AR) (Read
B	D_Bit	DDDDDdd	0 ~ 3276715	Data Memory (DM)
B	T_Bit	DDDDDdd	0 ~ 3276715	Timer (TIM)
B	C_Bit	DDDDDdd	0 ~ 3276715	Counter (CNT)
B	C_Flag	DDDD	0 ~ 4095	
B	T_Flag	DDDD	0 ~ 4095	
B	EM0_Bit ~ EMC_Bit	DDDDDdd	0 ~ 3276715	Extend Memory Bit
B	CIO_Bit_Force	DDDDDdd	0 ~ 3276715	CIO Bit Force Command
W	CIO	DDDDD	0 ~ 32767	Channel I/O (CIO)
W	W	DDDDD	0 ~ 32767	Work Area (WR)
W	H	DDDDD	0 ~ 32767	Holding Area (HR)
W	A	DDDDD	0 ~ 32767	Auxiliary Relay (AR) (Read
W	C	DDDDD	0 ~ 32767	Counter (CNT)
W	T	DDDDD	0 ~ 32767	Timer (TIM)
W	D	DDDDD	0 ~ 32767	Data Memory (DM)
W	EM0 ~ EMC	DDDDD	0 ~ 32767	Extend Memory

Wiring Diagram:

Diagram 1

Ethernet cable: