

21.1.8 MICREX-SX (Ethernet) (IEC Mode)

Communication Setting

Editor

Make the following settings on the editor. For more information, see "1.3.2 Ethernet Communication (TS2060i Only)".

- IP address for the TS2060i unit
 - When specified on the screen program:
[System Setting] → [Hardware Setting] → [Local Port IP Address]
 - When specified on the TS2060i unit:
Main Menu screen → [Ethernet Information] → [Ethernet]
- Port number for the TS2060i unit (for communication with PLC)
[System Setting] → [Hardware Setting] → [PLC Properties] → [Communication Setting]
- IP address and port number of the PLC
Register on the [PLC Table] in [System Setting] → [Hardware Setting] → [PLC Properties] → [Target Settings].
SPH: The PLC port number is "Self port standard No." plus 251 set on the PLC.
SPF: The PLC port number must be the same number as the one set by "Loader Command Receive Port No." on the PLC.
- Others (Available only when [Use SPH5000M] is checked.)
[System Setting] → [Hardware Setting] → [PLC Properties] → [N Block Read/Write]
 - When using multiple single block read/write, set [N Block Read/Write] to [Yes].
 - When not using multiple single block read/write, set [N Block Read/Write] to [No].

PLC (Ethernet Parameter Setting)

The table below shows settings required for communication with the TS2060i.

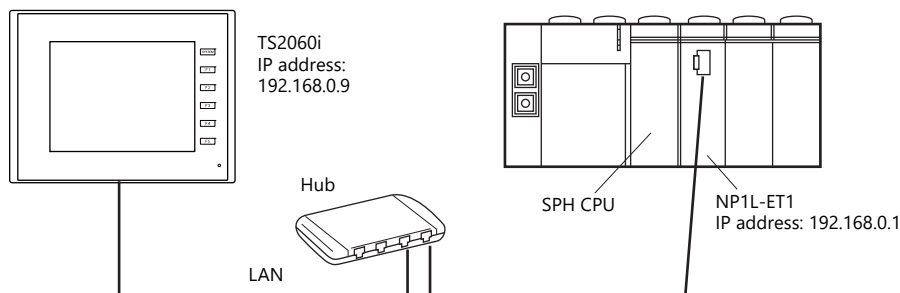
(Underlined setting: default)

Item	Setting	Remarks
IP Address	<u>192.168.0.1</u>	
Subnet Mask	<u>255.255.255.0</u>	
Self-port Standard No.	<u>256</u>	SPH
Loader Command Receive Port No.	<u>507</u>	SPF

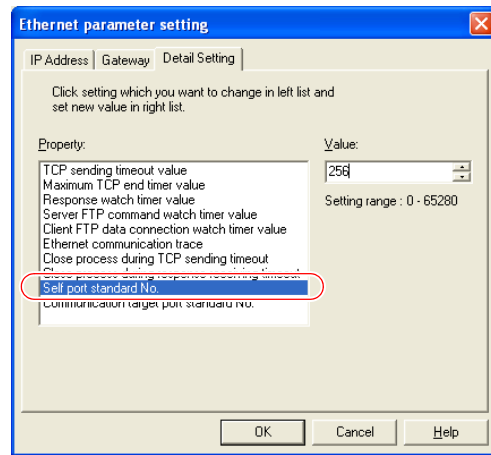
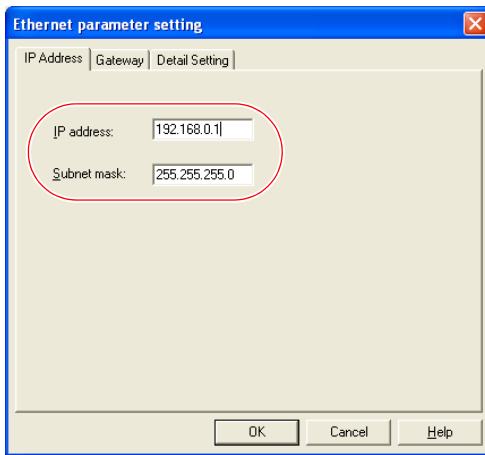
For more information on other setting items, refer to the PLC manual issued by the manufacturer.

Setting Example

The following example shows the setting for communication between MICREX-SX ET1 module and the TS2060i unit via Ethernet.



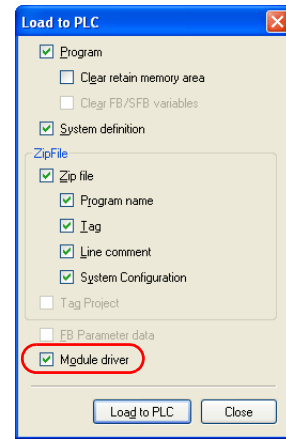
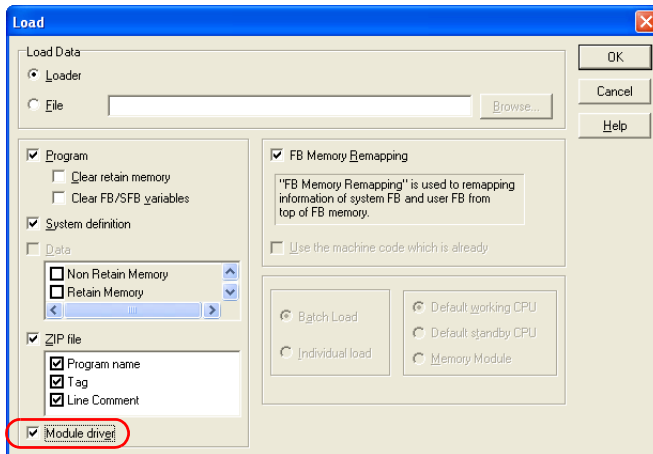
Setting on the PLC loader



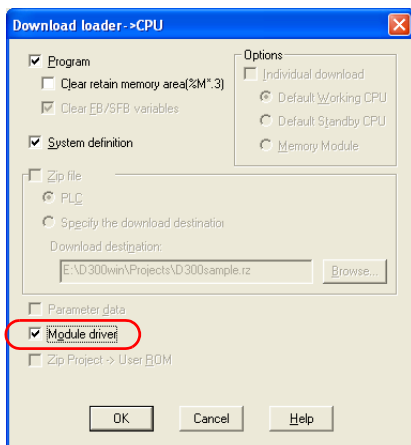
When the Ethernet module is used, the module driver must be transferred to the PLC. To transfer it to the PLC, check [Module driver] on the relevant PLC transfer setting dialog.

- SX Programmer Standard Ver. 2

- SX Programmer Standard Ver. 3

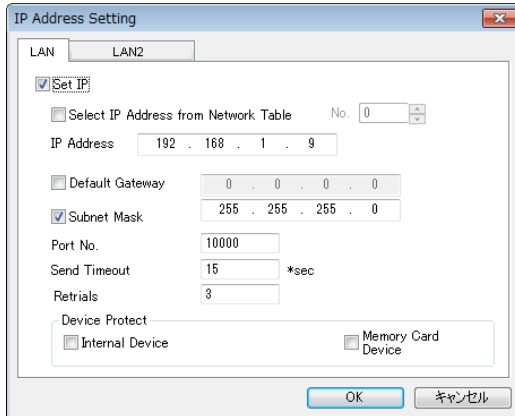


- D300win

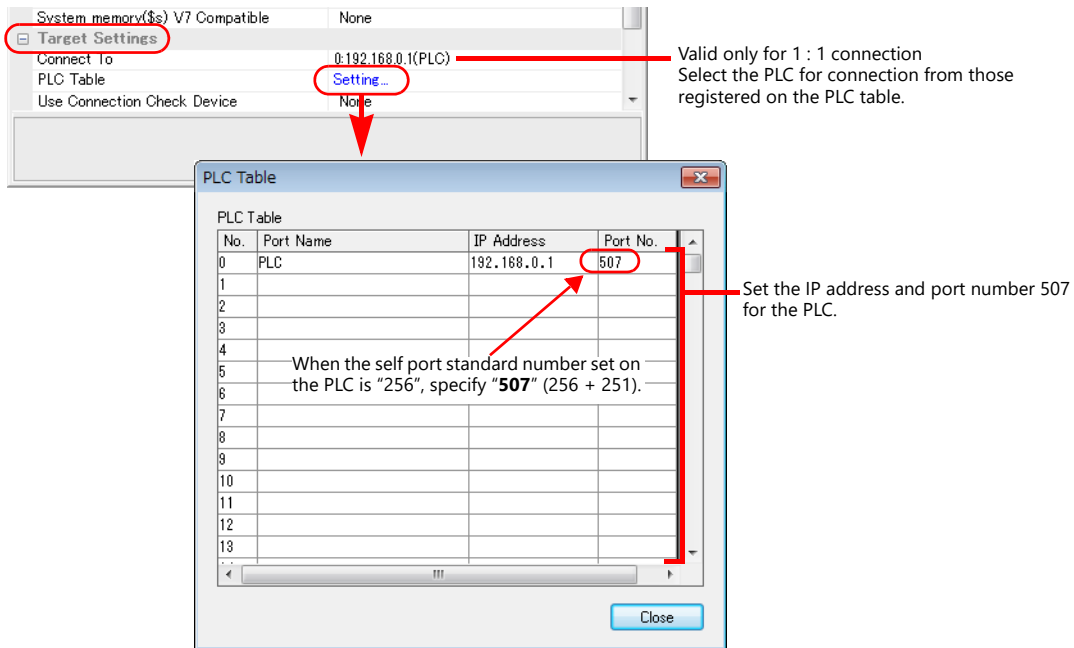


Settings on the editor

- IP address setting for the TS2060i unit (on the editor)
 [System Setting] → [Hardware Setting] → [Local Port IP Address]



- PLC Table
 [System Setting] → [Hardware Setting] → [PLC Properties] → [Target Settings] → [PLC Table]



Available Device Memory

The available device memory is the same as the one described in "21.1.4 MICREX-SX SPH/SPB/SPM/SPE/SPF Series (IEC Mode)".

PLC_CTL

Macro command "PLC_CTL F0 F1 F2"

Contents	F0	F1 (= \$u n)		F2
All start	1 - 8 (PLC1 - 8)	n	Station number: 00H to FFH ^{*1}	2
		n + 1	Command: 0400H	
All stop	1 - 8 (PLC1 - 8)	n	Station number: 00H to FFH ^{*1}	2
		n + 1	Command: 0402H	
Operation / standby switching ^{*2}	1 - 8 (PLC1 - 8)	n	Station number: 00H to FFH ^{*1}	3
		n + 1	Command: 040BH	
		n + 2	CPU No. operated by default: m (0, 2, 4, 6)	

*1 Valid only when "1 : n" connection mode is selected under [Communication Setting] in the [PLC Properties] window ([System Setting] → [Hardware Setting]).
 For the station number, set the PLC table number under [Target Settings] in the [PLC Properties] window ([System Setting] → [Hardware Setting]).

*2 Valid only for a redundant system.