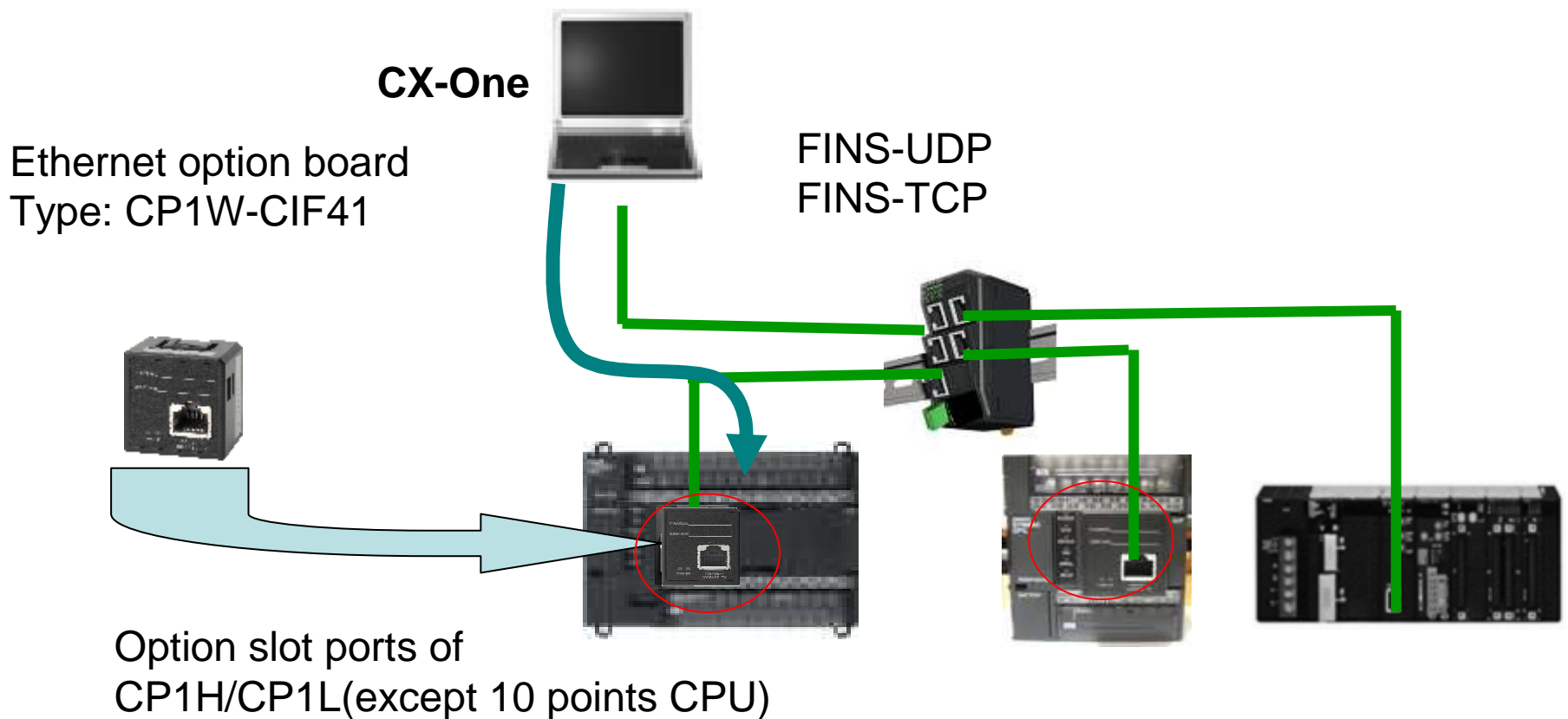


# CP Ethernet option board (CP1W-CIF41)



# Special feature

**CP1H/CP1L series (except CP1L-10 points CPU) can Ethernet connection  
Just put on Ethernet option board (type CP1W-CIF41) in Option board  
slot ports. Omron standard FINS/TCP, FINS/UDP protocol support  
monitoring and programming by PC through Ethernet network.**



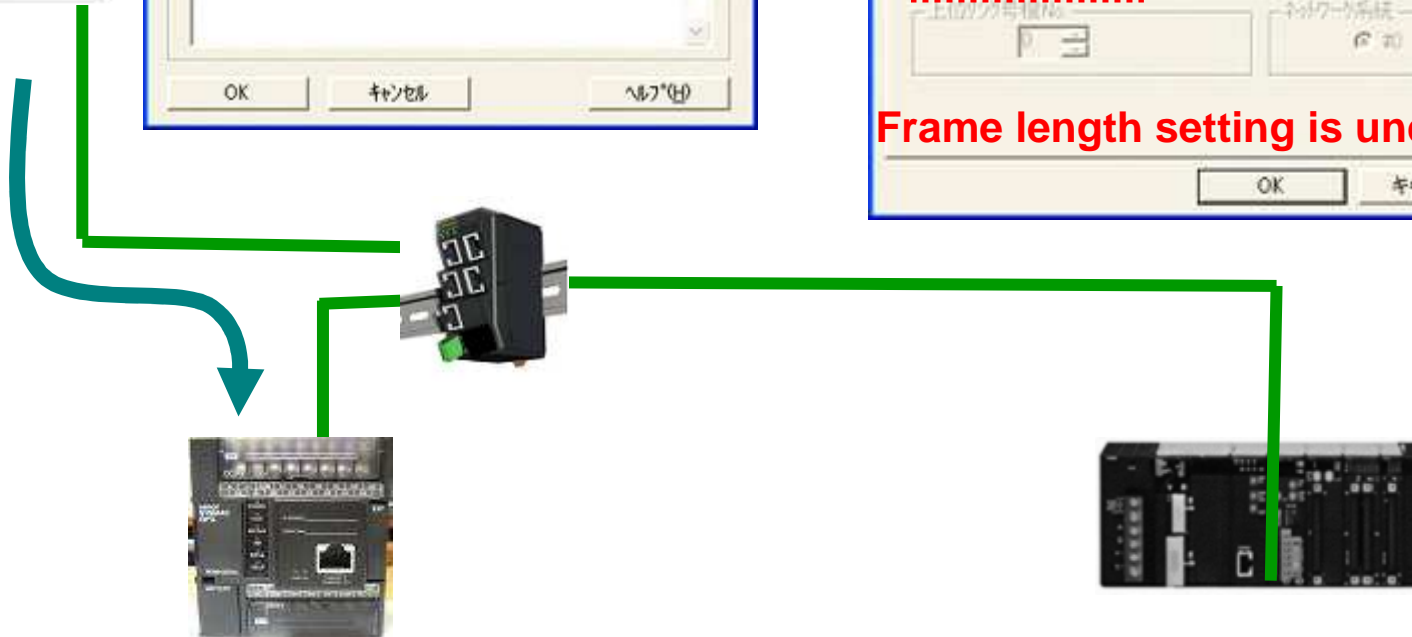
# Special feature

CX-programmer (Ver3.1) connection though Ethernet option board.  
Choosing Ethernet (FINS/TCP) in Cx-P.

CX-P



Frame length setting is under "1004" byte

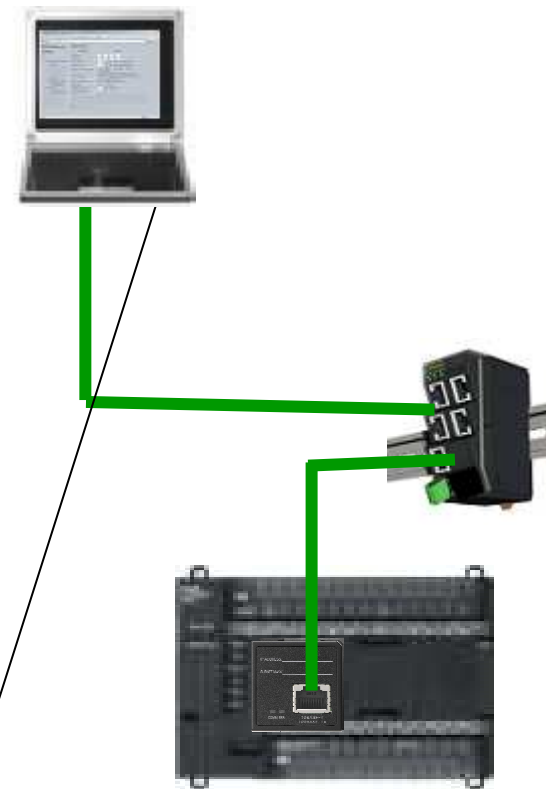
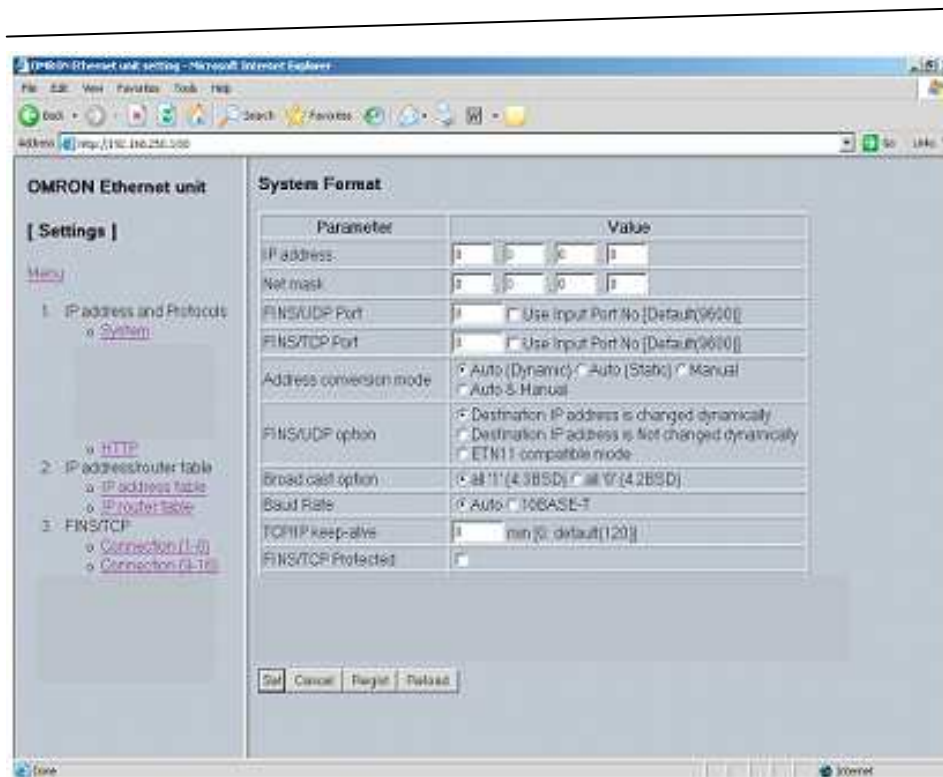


# Special feature

Ethernet option board have Web function.

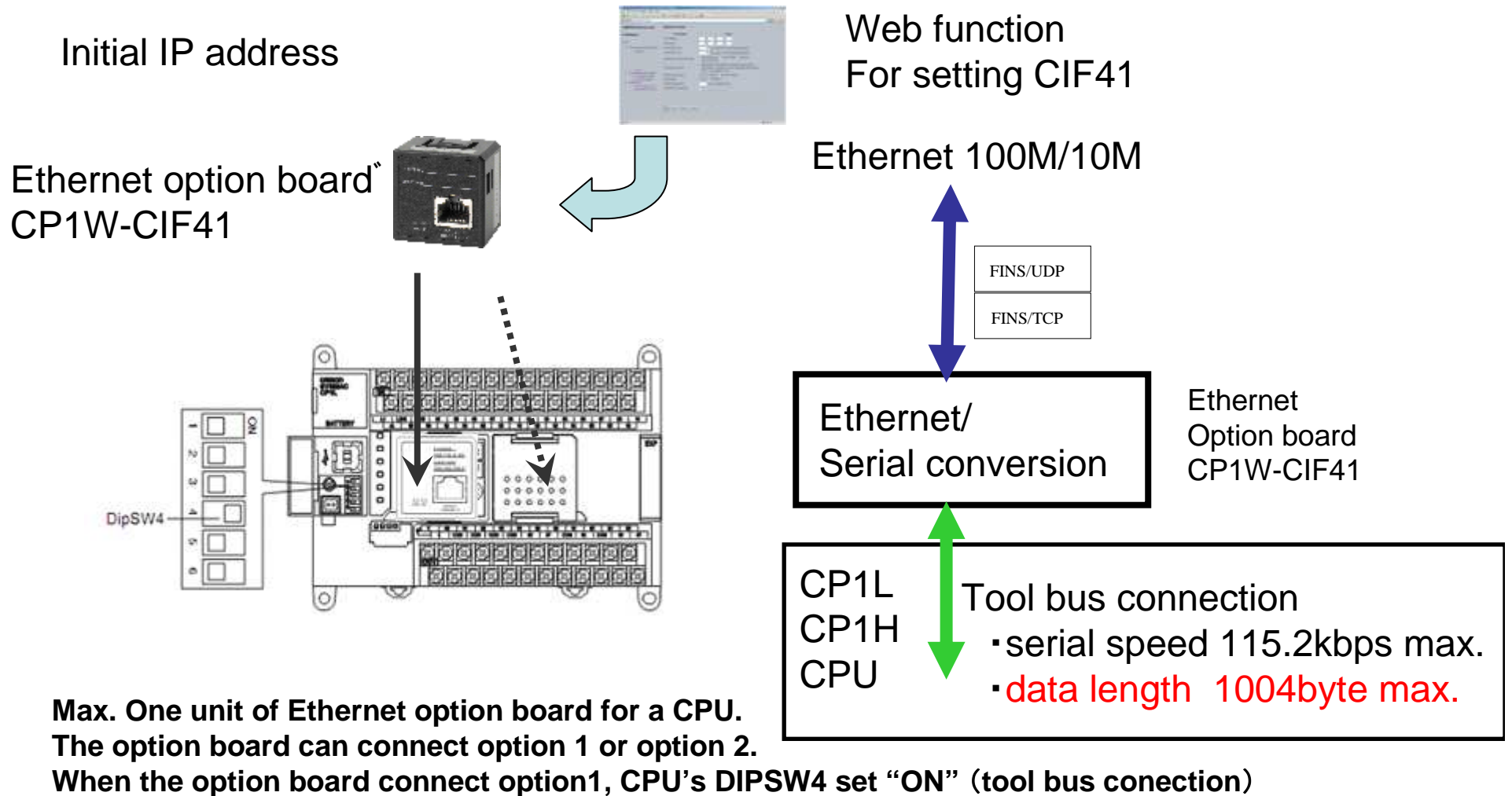
The function is the setting of the option board (IP address e.t.c.)

Web function



CX-P do not have Ethernet system setting function.

# System configuration



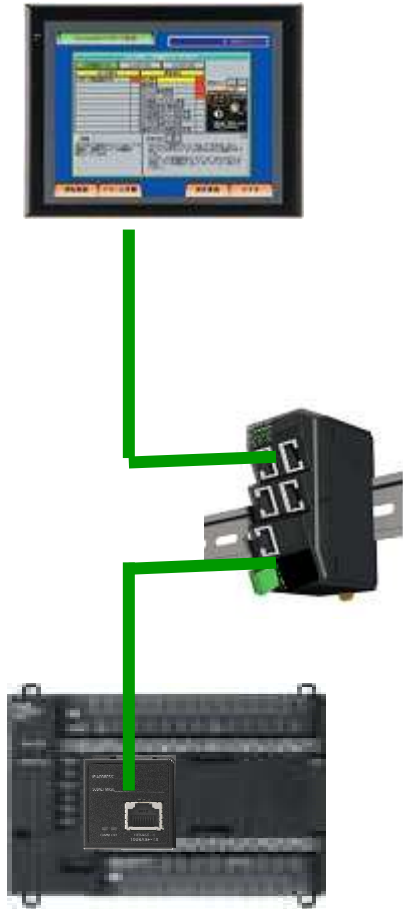
# Specification

Item	Specification	
Number of nodes	254	
Message length	1016 bytes max (CJ1W-ENT21 is 2024bytes)	
Number of buffers	8k (CJ1W-ETN21 is 392kbytes)	
Protocol name	FINS/UDP method	FINS/TCP method
Protocol used	UDP/IP	TCP/IP
	The selection of UDP/IP or TCP/IP is made by means of the FINS/TCP Tab in the CX-Programmer's Unit Setup.	
Number of connections	---	2 (CJ1W-ETN21 is 16)
Port number	9600 (default) Can be changed.	9600 (default) Can be changed.
Protection	No	Yes (Specification of client IP addresses when unit is used as a server)
Other	Items set for each UDP port <ul style="list-style-type: none"> <li>●Broadcast</li> <li>●Address conversion method</li> </ul>	Items set for each connection <ul style="list-style-type: none"> <li>●Server specification</li> <li>●Remote IP address spec.</li> </ul> Server: specify IP addresses of clients permitted to connect. Client: specify remote Ethernet Unit (server) IP address <ul style="list-style-type: none"> <li>●Automatic FINS node address allocation</li> </ul> Specify automatic allocation of client FINS node addresses
Internal table	This is a table of correspondences for remote FINS node addresses, remote IP addresses, TCP/UDP, and remote port numbers. It is created automatically when power is turned ON to the PLC or when the unit is restarted, and it is automatically changed when a connection is established by means of the FINS/TCP method or when a FINS command received. The following functions are enabled by using this table. <ul style="list-style-type: none"> <li>●IP address conversion using the FINS/UDP method</li> <li>●Automatic FINS node address conversion after a connection is established using the FINS/TCP method</li> <li>●Automatic client FINS node address allocation using the FINS/TCP method</li> <li>●Simultaneous connection of multiple FINS applications</li> </ul>	

# Specification

Item		CP1W-CIF41	CJ1W-ETN21(refulence)	
Physical layer		100/10Base-TX (Auto-MDIX)	100/10Base-TX	
Number of nodes		254	254	
PLC maintenance via the Internet		Not supported	Can send commands by e-mail over the Internet from a computer to the PLC.	
Server specification		Same	Specification by IP address or by host name	
Comm. service	FINS comm. service	Automatic IP address acquisition	Same	A computer automatically acquiring IP addresses can send commands to the PLC and receive responses.
		FINS communication with computer without fixed node address	Same	Possible (with Automatic allocation by Ethernet Unit) Client FINS automatic node address allocation function, TCP/IP only
		Handling TCP/IP	Same, but 2 connections max and only one connection can be set to client.	With FINS communications, both UDP/IP and TCP/IP (16 max.) possible.
		Simultaneous connection of multiple applications in a computer	Same	Possible (with both UDP/IP and TCP/IP)
Mail functions		Not Supported	E-mail attachments with I/O memory data are possible for the mail send function. (SMTP, file attachment) With the mail receive function, commands can be received from the PLC. (POP3, mail receive)	
FTP server function		Not supported	Supported	
Socket services function		Not supported	Supported	
Automatic clock information adjustment		Not supported	Supported	

# NS connection



Current NS can not connect with CP1W-CIF41.  
In next spring, NS will modify for CP1W-CIF41.  
(Ns system version is 8.2)

All CP1L/CP1H can use CP1W-CIF41.  
We do not need any Ver-Up for CIF41.

CP1L/CP1H