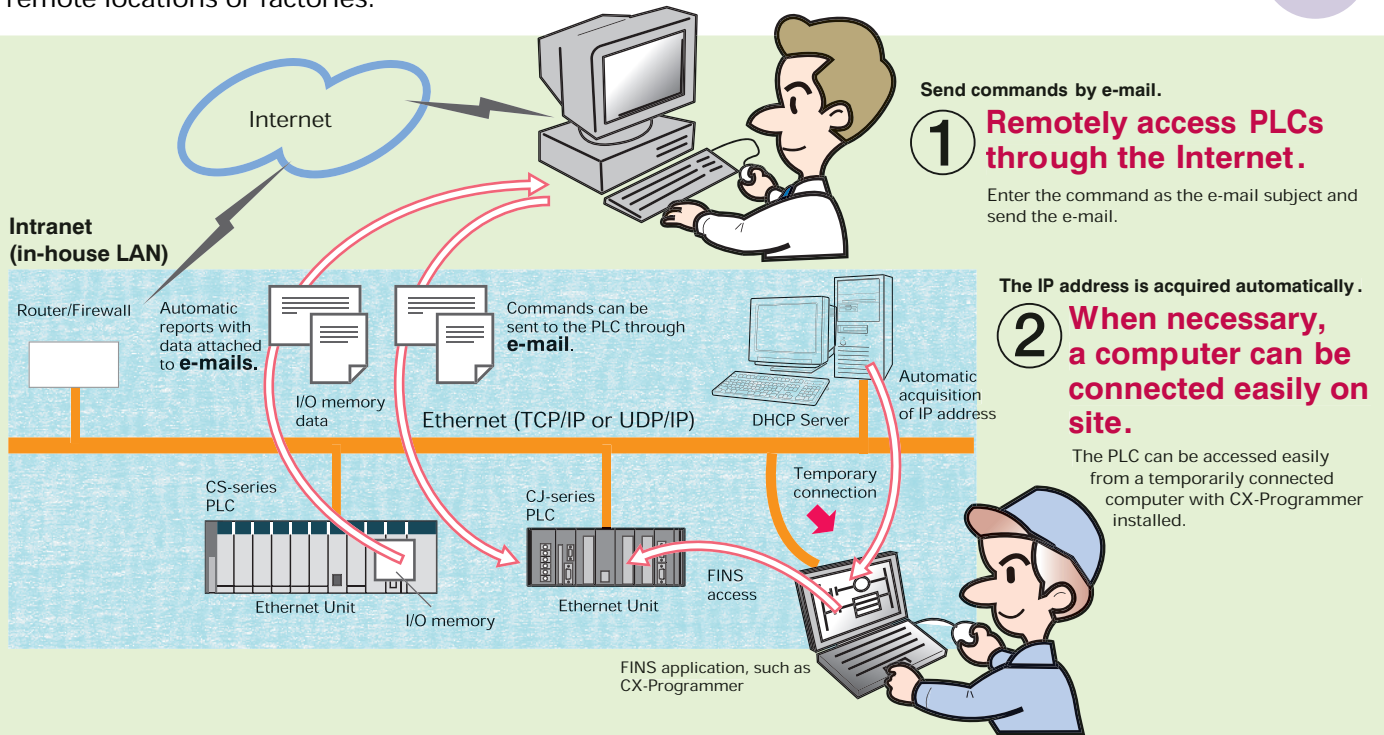


**SYSMAC CS/CJ Series
Ethernet Units (100Base-TX)**

CS1W-ETN21 (for CS-series PLCs)
CJ1W-ETN21 (for CJ-series PLCs)

**Ethernet provides familiar, easy, remote access
to work site equipment.**

Supports a variety of remote access protocols for connection to equipment in remote locations or factories.



Improved Intranet Compatibility along with Complete Compatibility with the Internet

Improved basic performance and more flexibility in settings

- Compatible with 100Base-TX (100 Mbit/s) and 10Base-T (10 Mbit/s).
Response to FINS message communications is up to 4 times faster than earlier models.
- The number of nodes has been increased from 126 to 254.
- Various kinds of servers can be specified by their host name (through DNS).
- Compatibility is retained with application interfaces made for earlier models (CS1W-ETN01/11 and CJ1W-ETN11).

The e-mail function can be used to remotely access PLCs through the Internet.

- Get mail command
A command can be entered into an e-mail message at the computer and sent to the PLC.
- Attach files to e-mail being sent or received.
A data file can be created automatically when preset conditions are met and that file can be sent to a user as an attachment to e-mail.

- Expanded conditions for e-mail transmission
Values in the CPU Unit's I/O memory can be checked and e-mail can be sent when preset conditions are established. This feature eliminates the need to create a ladder program routine to send the data.

Intranet compatibility has been improved by strengthening the FINS communications functions.

- Compatible with TCP/IP
- The computer's IP address setting can be acquired automatically (DHCP).
- Multiple FINS applications within the computer can be connected online at the same time.

**Innovation
in the Solution Age**

OMRON INDUSTRIAL AUTOMATION

CS1W-ETN21 (for CS-series PLCs)
CJ1W-ETN21 (for CJ-series PLCs)

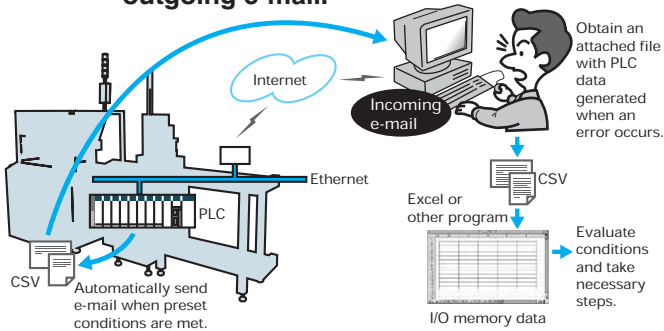


If an OMRON Ethernet Unit is being used, a variety of remote applications are supported through the Internet, such as checking operating status and troubleshooting errors quickly, connecting CX-Programmer temporarily, and transferring large files.

1
Example

The user wants the Ethernet Unit to constantly monitor the operating status of equipment (PVs such as temperature), convert the status information to CSV data that can be read with Excel, and send the data to the Administrator as an attachment to e-mail ...

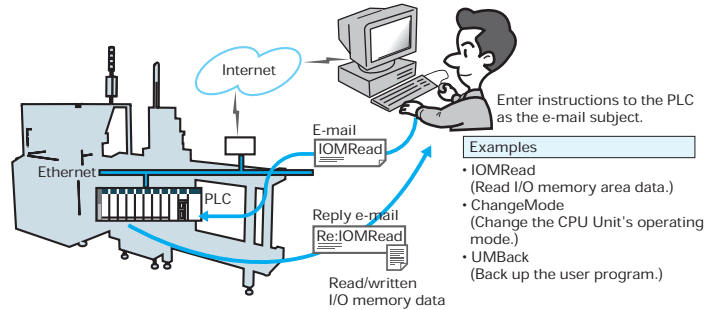
Use the File Attachment function for outgoing e-mail.



2
Example

When necessary, the user wants to check equipment operation or operate the equipment through the Internet ...

Use the E-mail Command Reception function.



3
Example

The user wants to temporarily connect a computer and access the PLC from an application such as the CX-Programmer ...
The user wants to construct a remote application using computer communications middleware, such as FinsGateway or Compolet.

Use FINS communications services.

4
Example

The user wants to upload/download a large amount of logged data or startup data through the Internet from a Memory Card installed in the CPU Unit ...

Use the FTP Server function.

Summary of Communications Services

Communications service	Primary uses	Counterpart device
FINS communications	Through an intranet	Used to access a PLC from a computer (FINS communications application) or send message communications from one PLC to another PLC. It is possible to access a PLC with FINS messages even from a DHCP client computer or through TCP/IP communications.
E-mail sending function	Through the Internet	FINS communications application on a computer, NS-series Programmable Terminal, or a PLC equipped with an Open Network Controller or OMRON Ethernet Unit
E-mail receiving function		Computer (e-mail software)
FTP server function	Through an intranet or the Internet (See note.)	Used to transfer large files between the computer and PLC.
Socket service		Used to transfer data between a general-purpose application and the PLC.
Automatic clock correction function	Through the intranet	Used to automatically correct the PLC's internal clock.
		Computer (FTP client software)
		Computer running general-purpose application other than a FINS communications application
		SNTP server

Note: When going through the Internet, the Ethernet Unit must acquire a global IP address.

Standard Models

Unit name	Applicable PLC series	Transmission media	Communications services	Model number
Ethernet Unit (100Base-TX)	CS Series	100Base-TX or 10Base-T	FINS communications service, e-mail sending, e-mail receiving, FTP server, socket service, and automatic clock correction	CS1W-ETN21
	CJ Series			CJ1W-ETN21

Related Products

Product name	Applicable version	Application
CX-Programmer	Version 3.2	Ethernet Unit setup
FinsGateway	Version 2003	Personal computer middleware for FINS/TCP

* Ethernet is a registered trademark of the Xerox Corporation.

Note: Do not use this document to operate the Unit.

OMRON Corporation

FA Systems Division H.Q.
66 Matsumoto
Mishima-city, Shizuoka 411-8511
Japan
Tel: (81)55-977-9181
Fax: (81)55-977-9045

Regional Headquarters

OMRON EUROPE B.V.
Wegalaan 67-69, NL-2132 JD Hoofddorp
The Netherlands
Tel: (31)2356-81-300/Fax: (31)2356-81-388

OMRON ELECTRONICS LLC
1 East Commerce Drive, Schaumburg, IL 60173
U.S.A.
Tel: (1)847-843-7900/Fax: (1)847-843-8568

OMRON ASIA PACIFIC PTE. LTD.
83 Clemenceau Avenue,
#11-01, UE Square,
Singapore 239920
Tel: (65)6835-3011/Fax: (65)6835-2711

Authorized Distributor:

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