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CP1W-ETN01-US

# CP1 Ethernet Adapter

## Low Cost Ethernet Adapter for CP1 Series Micro PLCs

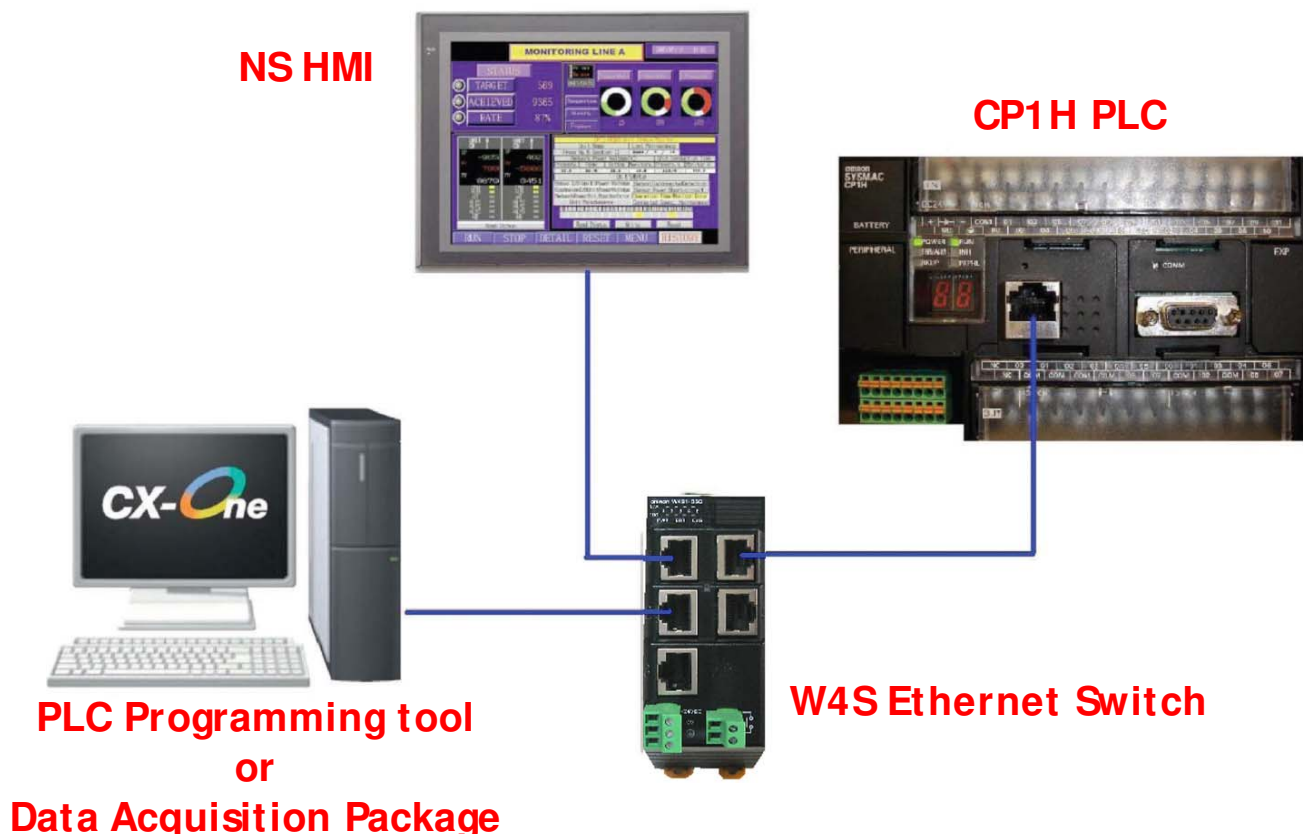
The CP1W-ETN01-US is a low cost adapter that allows Ethernet communications to the CP1H and CP1L PLCs with an available option board slot. Easily connect the PLC to a NS HMI, Data Acquisition Software or CX-Programmer via Ethernet communications.

### Key Features and Benefits

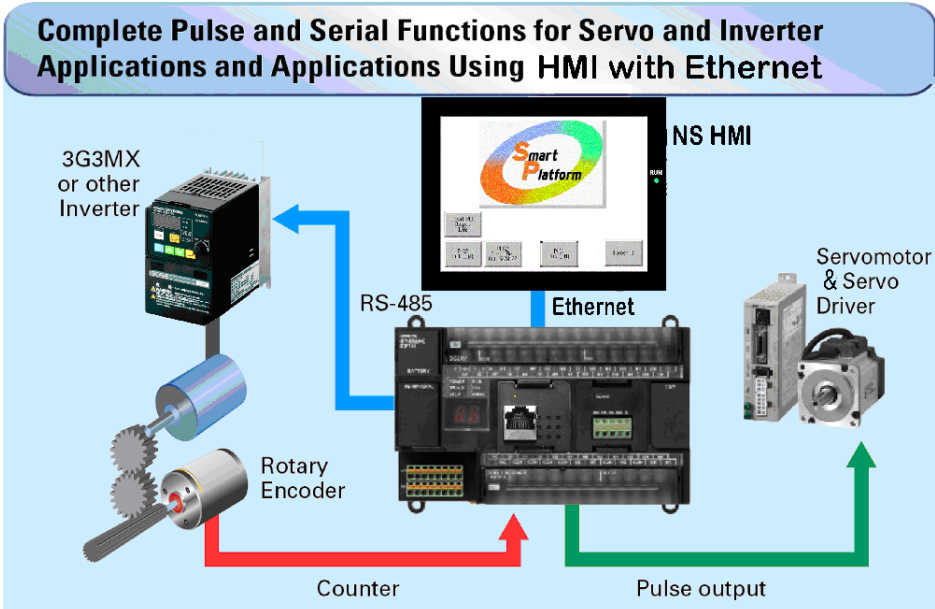
- **Easy Mounting** – The adapter mounts in an unused Option Board Slot of the CP1 PLC
  - **Supports 2 connections** – The CP1W-ETN01-US has been designed to allow 2 simultaneous Ethernet connections. An HMI (NS, NSJ, Indusoft) as well as a CX Programmer can communicate to a CP1H or CP1L with the adapter.
  - **Remote Maintenance** – Perform remote maintenance via an Intranet or the Internet for remote diagnostics to maximize production up-time and reduce operating and maintenance costs.
  - **Data Acquisition** – Use Indusoft or CX-Supervisor to easily monitor, control & store production data, alarms, recipes, messages from the PLC for improving product quality.
  - **Intelligent Slave** – Each PLC is a powerful motion controller\* (CP1H - 4 Axis, CP1L – 2 Axis) with high speed interrupts, Real Time Clock, IEC61131-3 Programming, PID, Floating Point Math and is expandable with analog or digital I/O. The addition of an Ethernet option board turns the PLC into an Intelligent Slave.
- \*Transistor models



### Typical System Configuration



# Intelligent Ethernet Slave



In the above example the CP1H PLC communicates to the NS HMI via Ethernet. The PLC can control 4 axis of servo motors while also reading 4 high speed encoder inputs. An additional option port can be added for communications to AC Drives, Temperature Controllers, or other devices. Built into the CPU are 24 Digital In, 16 Digital Out and 6 Analog I/O (4 configurable analog inputs & 2 configurable analog outputs). The PLC is expandable up to 320 digital I/O along with 2 CJ Special I/O modules (Analog, Motion, RFID, Network or Communication cards).

## Specification

Part Number	Description
CP1W-ETN01-US	CP1 Ethernet Adapter
Type	100Base-TX (Can be used as 10Base-T)
Applicable PLCs	CP1L-L14, CP1L-L20, CP1L-M30, CP1L-M40, CP1L-M60, CP1H
Transmission Distance	100 m (distance between hub and node)
Number of units mounted	Two (both option ports can be used) (One for CP1L-L14,CP1L-L20)
Communication Method	Omron FINS
Maximum connections per device	Two connections (ie: CX-Programmer and NS HMI)
Number of nodes on FINS network	Up to 252 nodes possible
FINS Frame Length	500 bytes max
Default IP Address	192.168.250.11
Web Page IP Address Set-up	<a href="http://192.168.250.11">http://192.168.250.11</a> (Default)

**Additional literature** can be obtained from [www.omron247.com](http://www.omron247.com).

- W450 - CP1H Operation Manual
- W451 - CP1L / CP1H Programming Manual
- W462 - CP1L Operation Manual
- W452 - NSJ Operation Manual
- W227 - W4S Ethernet Switch

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