

Ethernet Interface Adapter for CP1 PLCs

CP1W-ETN61

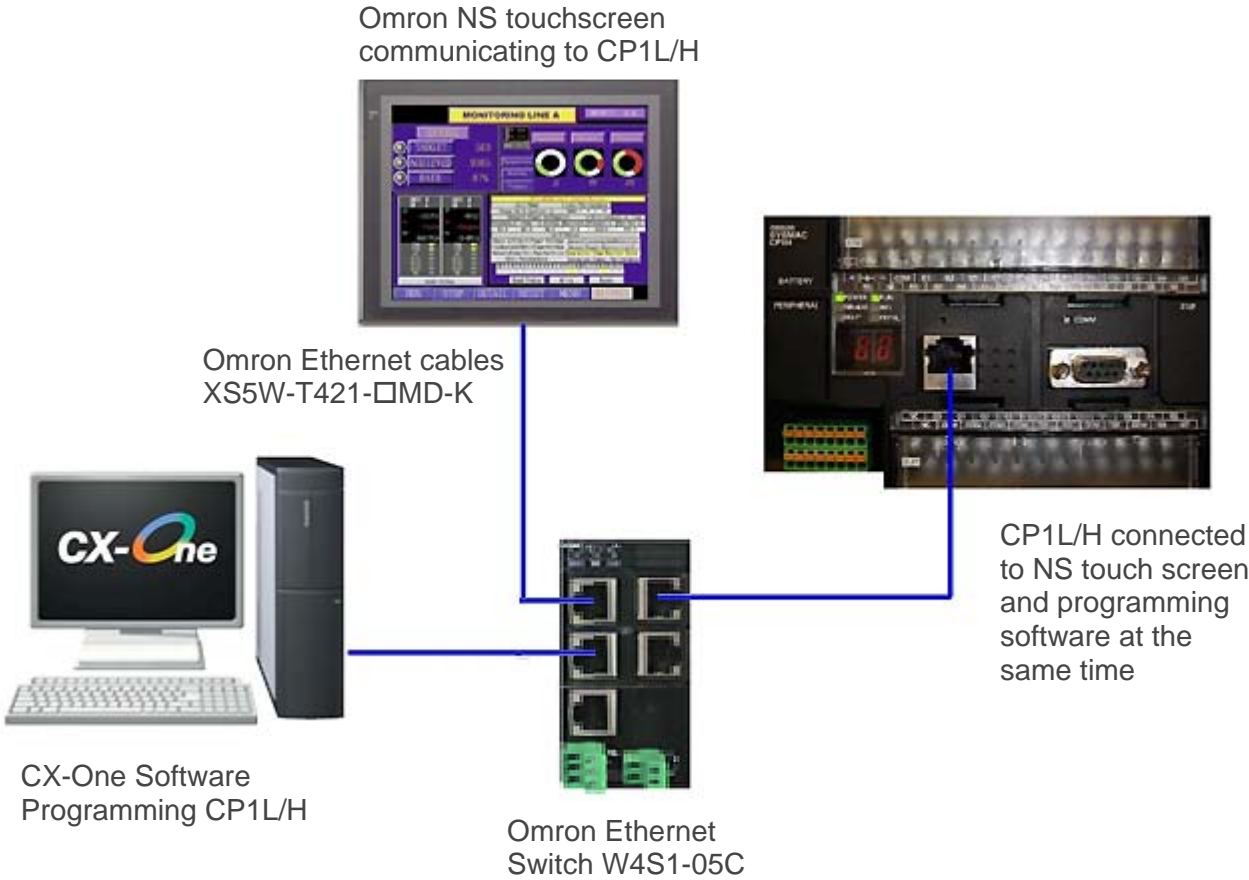
Low Cost Ethernet Adapter for CP1 Series Micro PLCs

The CP1W-ETN61 improves on previous Ethernet adapters by adding capability and reducing cost. Compared to the CP1W-EIP61 module, the CP1W-ETN61 module provides 4 TCP connections instead of 1. Some office networks block UDP connections and therefore TCP connections are better. Machine builders like that these plug-in adapters easily match a CP1 PLC to their customers' choice of network.

- Ability to program the CP1L/H over Ethernet and simultaneously communicate with an HMI and/or SCADA software system to the same CP1L/H.
- The CP1W-ETN61 adapter plugs into an available CP1 option board slot.



System Configuration



Key Features and Benefits

| | |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Supports 4 UDP and 4 TCP connections | Allows connection of four devices at once: PLCs, HMIs, SCADA, and CX-One for programming. Some customers prefer TCP connections and block UDP connections on their office networks. |
| Web browser setup | Ease of setup |
| Supports Ethernet Gateway setup | Remote (Internet) based access possible. |

Limitations

| | |
|-------------------|-------------------------------------------------------------------------------------------|
| Slave Device Only | Two CP1 PLCs cannot be used together since both will be slaves. |
| No FINS routing | The requesting device must be on the same FINS network as the device it wants to talk to. |

Specifications

| CP1W-ETN61 | CP1 Ethernet Adapter |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Type | 10/100Base-TX |
| Applicable PLCs | CP1L-L14/L20/M30/M40/M60, CP1H-X/XA/Y |
| Transmission distance | 100m (distance between any node to switch) |
| Number of units mounted | One |
| Communication method | Ethernet FINS UDP |
| Maximum connections per device | 254 |
| Packet Size | 1004 bytes maximum frame length |
| Current IP Address | D1200, D1201 (D1200=1 st & 2 nd Octets in hex, D1201=3 rd & 4 th Octets in hex). |
| Default IP Address | 192.168.250.11 |
| Web Page IP Address setup | http://192.168.250.11 (default) |

Related Products

Software

CX-One version 4 contains the Network Configurator for EtherNet/IP. CXONE-AL01C-V4 is the part number for a single license copy on CD.

Ethernet Switches

Omron's W4S1 Industrial Ethernet Switches are compatible with Ethernet, EtherNet/IP, Profinet networks. They prioritize EtherNet/IP packet delivery by using Quality of Service [QoS] to ensure high-speed delivery of control data. The QoS function is enabled with a simple DIP switch instead of complex software settings. Available in 3- and 5-port models.

- Reliable, uninterrupted communication for the Factory Automation environment
- Compact size and easy installation - DIN rail mounting, 24 V DC power supply; measures 90 H x 25 or 48 W x 78 D mm

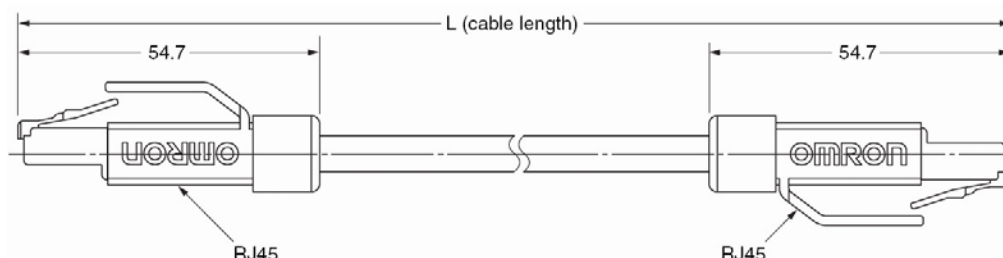


| Description | Model |
|---------------------------------------------------------------|-----------------|
| 3 port switch with QOS | W4S1-03B |
| 5 port switch with QOS | W4S1-05B |
| 5 port switch with QOS, SW-LSI, and Broadcast Storm Detection | W4S1-05C |

Ethernet Cables

Omron offers a line of shielded high quality industrial cables for inside and outside the control panel.

- Cables are shielded to protect against EMI
- RJ45 connectors – both ends
- cULus approval markings on cable



| Description | Connector type | Cable length L (meters) | Model |
|------------------------------------------------------|------------------------|-------------------------|-----------------|
| Double-ended Ethernet Cable with Straight Connectors | RJ45/RJ45 on both ends | 0.3 | XS5W-T421-AMD-K |
| | | 0.5 | XS5W-T421-BMD-K |
| | | 1 | XS5W-T421-CMD-K |
| | | 2 | XS5W-T421-DMD-K |
| | | 3 | XS5W-T421-EMD-K |
| | | 5 | XS5W-T421-GMD-K |
| | | 10 | XS5W-T421-JMD-K |
| | | 15 | XS5W-T421-KMD-K |

Reference Documentation

| Description | Media | Publication number |
|-------------------------------------------------------------------|-------|----------------------------|
| CP1L/CP1H Ethernet Adapter CP1W-ETN61 Application and Setup Guide | PDF | SG CP1 ETN |
| CP1L/H Series Brochure | PDF | R08I |
| CP1H Operation Manual | PDF | W450 |
| CP1L/CP1H Programming Manual | PDF | W451 |
| CP1L Operation Manual | PDF | W462 |
| CJ/CS EtherNet/IP Operation Manual | PDF | W465 |
| CJ2 Hardware Manual | PDF | W472 |
| CJ2 Software Manual | PDF | W473 |
| W4S Ethernet Switch Brochure | PDF | V227 |

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