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Ethernet Interface Adapter for CP1 PLCs

CP1W-ETN61

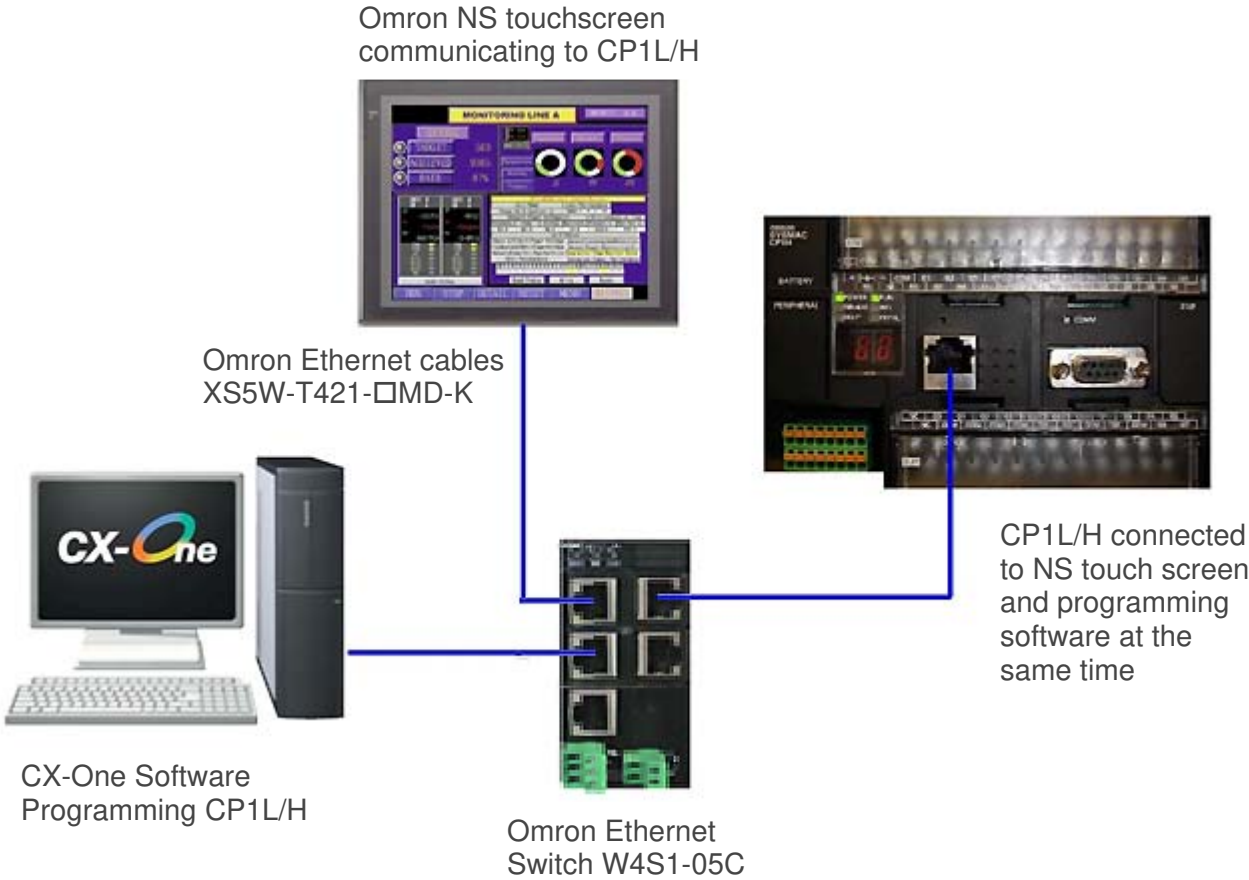
Low Cost Ethernet Adapter for CP1 Series Micro PLCs

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

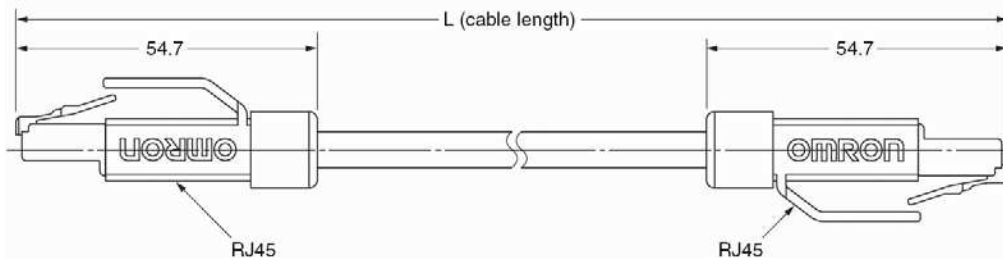


Description	Model
3 port switch with QOS	W4S1-03B
5 port switch with QOS	W4S1-05B
5 port switch with QOS, SW-LSI, and Broadcast Storm Detection	W4S1-05C

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

Additional literature can be obtained from www.omron247.com.

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