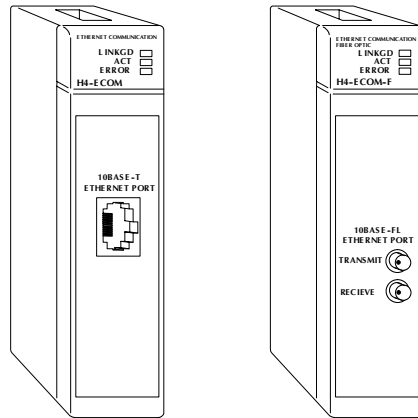


H4-ECOM and H4-ECOM-F

Ethernet Speed at an Incredible Price!

- High-speed peer-to-peer networking of PLCs
- Ultrafast updates when using **DirectSOFT32** Programming Software
- High-performance access for Human Machine Interface (HMI) or other Windows-based software when using our DSData Server
- Free SDK for custom driver development
- Virtually unlimited number of network nodes are possible
- Simple set-up using DIP switches or NetEdit software

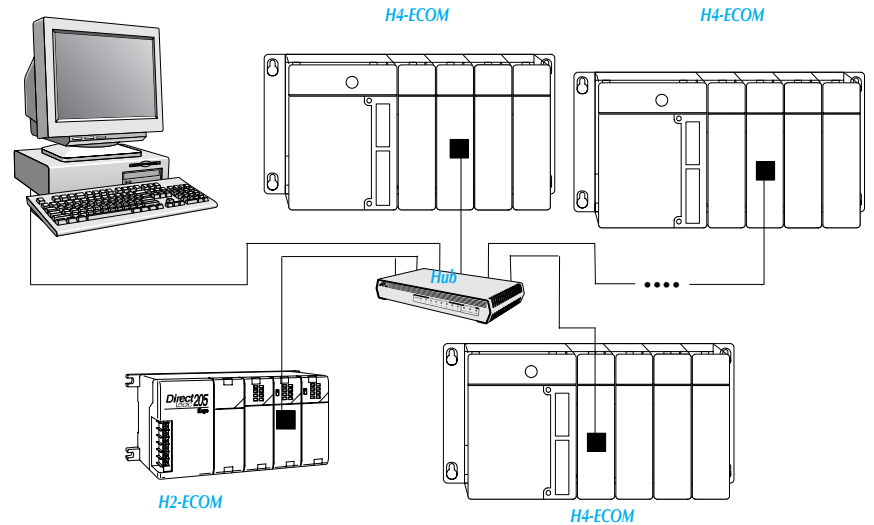
The Ethernet Communication Modules (ECOM) represent a price breakthrough for high-speed peer-to-peer networking of PLCs. No longer are you forced to designate a single PLC to be the network master. Any PLC can initiate communications with any other PLC. Link your PLCs with PCs using industry standard cables, hubs, and repeaters. A simple Windows-based spreadsheet program can be linked to your networked PLCs using our **DirectSOFT32** DSData Server. Or, use our DSData Server to link Human Machine Interface (HMI) software to **DirectLOGIC** PLCs. Our **DirectSOFT32** Programming Software can be used to monitor or update the RLL program in any **DirectLOGIC** PLC on the network. Walk to each PLC to make programming changes, or do it all from one PC. You decide.



Simple connections!

Use Category 5, UTP cables or 62.5/125 fiber optic cables depending on the requirements of your application. UTP cables can be run 100 meters between nodes and fiber optic cables can be run 2,000 meters.

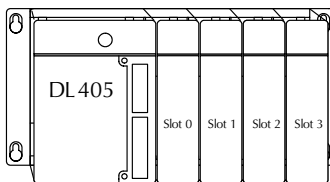
Use repeaters to extend distances and expand the number of nodes. UTP cables are inexpensive, and fiber optic cables virtually eliminate electrical noise problems. We let you choose the connection that fits your needs!



Specifications	H4-ECOM	H4-ECOM-F
Communications	10Base T Ethernet	10BaseFL Ethernet
Data Transfer Rate	10Mbps	10Mbps
Link Distance	100 meters (328 ft)	2,000 meters (6,560 ft)
Ethernet Port	RJ45	ST-style fiber optic
Ethernet Protocols	TCP/IP, IPX	TCP/IP, IPX
Power Consumption	530mA	670mA
Manufacturer	Host Automation Prods	Host Automation Prods

The H4-ECOM (-F) modules plug into any I/O slot of any local DL405 I/O base, including expansion bases*. The module maintains in flash memory the identification data, descriptive information, and communication parameters for PLC-to-PLC communications. Disconnect power before installing or removing any PLC module!

**Note: All DL405 series (and compatible) CPUs support the H4-ECOM (-F) modules.*



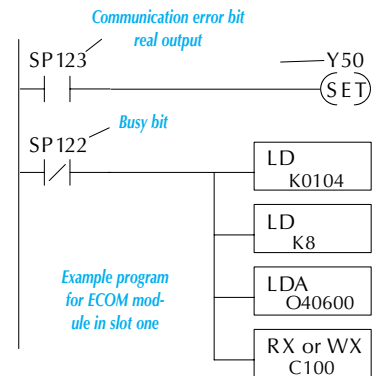
**Use of expansion bases requires D4-450 CPU and "-1" bases for all bases in system.*

NetEdit software

Free NetEdit software ships with the ECOM User Manual. Use NetEdit to set up the ECOM modules for you network. Flexible addressing allows you to use your choice of protocols and identifying methods. Assign each module a number or a name or both. You don't have to use an IP address, but you can if it's necessary for your network. Two protocols are available for PC-to-PLC communications: IPX and TCP/IP. Select the one you want to use, or use them both. The NetEdit screen displays all identifiers and troubleshooting information for each module on the network. You can use NetEdit to adjust parameters for PLC-to-PLC communications by clicking on Advanced Settings. The network identifiers can also be changed from **DirectSOFT32** Programming Software.

PLC-to-PLC communications

PLC-to-PLC communications are accomplished using Read from Network (RX) and Write to Network (WX) instructions. Build the RX and/or WX instructions into a routine as shown. One SP relay (the busy bit) is used for sequencing of multiple instructions or to prevent a single RX or WX instruction from being overwritten. The other SP relay can be used to annunciate a communication error. The first Load (LD) instruction contains the base and slot number of the initiating ECOM and the Module ID of the responding ECOM. The second LD instruction contains the number of bytes being transferred. You can transfer up to 256 bytes with one RX or WX instruction. The Load Address (LDA) instruction contains the beginning address in the initiating PLCs memory regardless of whether it is an RX or WX instruction that is being executed. The RX or WX instruction contains the beginning address in the responding PLC.



ECOM Starter Kit for \$349

The H4-ECOM-START gives you everything you need to make your first Ethernet network simple to build. It contains an ECOM module and instruction manual, a network adapter card for your PC, a crossover cable, and a **DirectSOFT32** Showcase Demo CD. See our Web site for more details.

