## **Need Additional Communications Ports?**

Do you need communications ports in addition to the built-in CPU communications ports to connect to an operator interface or HMI? Would you like to connect to a network of other AutomationDirect products, or a Modbus RTU or Ethernet network? If yes, then choose between the H4-ECOM100 Ethernet communications

H4-ECOM100 Ethernet communications module or the D4-DCM serial data communications module. Both modules' specifications and communications details are covered later in this section.

## Ethernet networking with the H4-ECOM100

All DL405 CPUs support the H4-ECOM100 module, which makes Ethernet networking a snap. The H4-ECOM100 module supports industrystandard 10/100Base-T networking with an RJ45 port. The ECOM100 module works with standard cables, switches and repeaters. A virtually unlimited number of PLCs can be connected to an Ethernet network using ECOM modules. This is the fastest data transfer rate we offer for your HMI or other Windows-based software. Use DirectSOFT to program any PLC on the network, and when monitoring your operating PLC, you will see much faster updates with Ethernet and the ECOM modules.

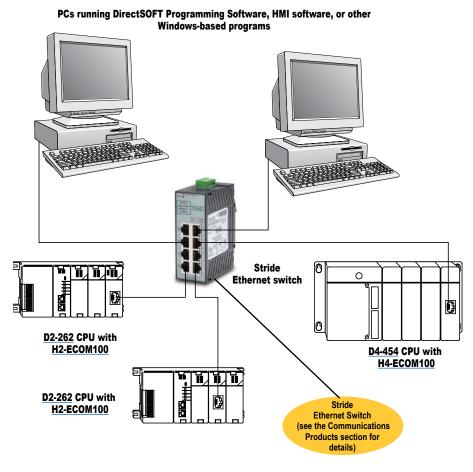
## Serial networking with the D4-DCM

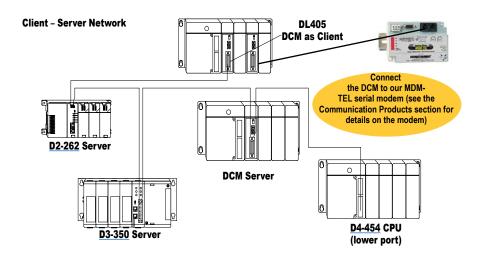
All DL405 CPUs support the D4-DCM Data Communications Module that can serve as a DirectNet Client/Server, DirectNet peer, or a Modbus RTU Server. The D4-DCM supports RS-232 and RS-422 communications. You can program the CPU through the DCM locally, or if a PC is the RS-422 Client, you can use DirectSOFT to program any PLC on the network.

**NOTE:** Any hardware with a date code less than 09X0 or with a first digit that is not 0, 1, or 2 may not work with the D4-454. We suggest that any hardware older than ten years and not currently sold on the AutomationDirect.com website be upgraded to a newer version.



**Note:** The D4-454 CPU also supports a Modbus RTU Client module for connection to a Modbus RTU network. This module is listed later in this section.





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