Serial Data Communications Module

Data Communications Module
D2-DCM

The D2-DCM Data Communications Module is used primarily for three reasons:
- Extra communications port to connect a PC, operator interface, etc.
- Network interface to **Direct**NET
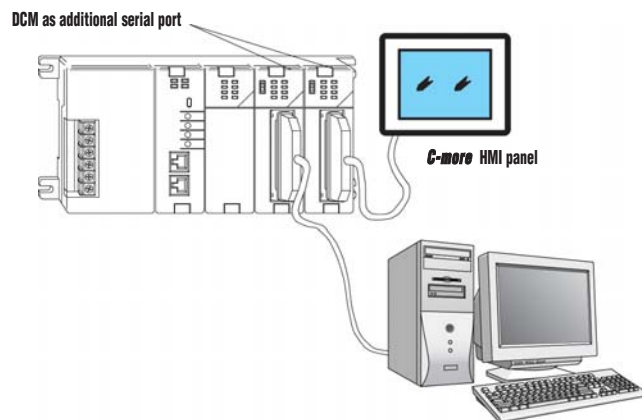- Network interface to a Modbus® network using the RTU protocol

Extra communications port

If additional communication ports are needed, they can easily be added by installing DCM modules. This allows additional connections of devices, such as operator interfaces, PCs, etc. Since the DCM does not require any programming, you can set the DCM communication parameters, connect the cables, and start transferring data. Make sure the device has a DL205 compatible driver.
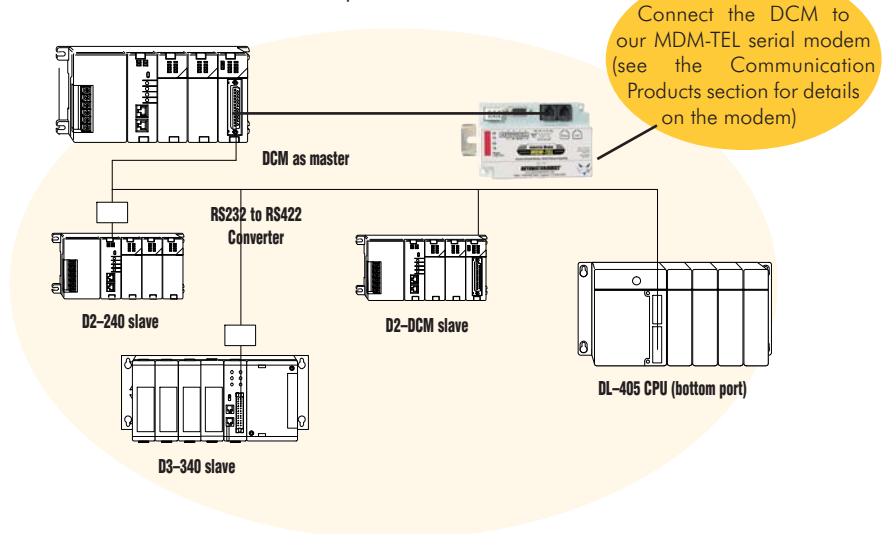
*Direct*NET network interface

The DCM can be used as a network interface for applications requiring data to be shared between PLCs, or between PLCs and an intelligent device such as a host PC. The DCM connects easily to **Direct**NET. This network allows you to upload or download virtually any type of system data including Timer/Counter data, I/O information, and V-memory information from any **Direct**LOGIC or compatible PLC. The DCM allows the DL205 to function as a network master or network slave.

Specifications	
Module Type	Intelligent
Modules per CPU	7 maximum, any slot except slot 0, CPU base only
CPUs Supported	D2-240 (firmware V1.8 or later), D2-250-1 and D2-260
Communications	RS-232/422 signal levels, *Direct*NET Master/Slave, K-sequence or Modbus RTU Slave protocol, Baud rate selectable from 300 baud to 38.4 Kbaud, Odd or No parity, *Direct*NET HEX or ASCII mode
Recommended Cable	Belden 9729 or equivalent (for RS-422)
Field Wiring Connector	25-pin D-shell connector
Internal Power Consumption	300 mA maximum at 5 VDC, (supplied by base power supply)
Operating Environment	0ºC to 60ºC (32ºF to 140ºF), 5% to 95% humidity (non-condensing)
Manufacturer	Koyo Electronics

DCM as additional serial port

C-more HMI panel

Master/Slave Network

DCM as master

RS232 to RS422 Converter

D2–240 slave

D2–DCM slave

D3–340 slave

DL–405 CPU (bottom port)

Connect the DCM to our MDM-TEL serial modem (see the Communication Products section for details on the modem)

Modbus RTU interface

The DCM can be used as a slave station interface to connect your DL205 system to a Modbus® network using the Modbus RTU protocol. The host system must be capable of issuing the Modbus commands to read or write the appropriate data. Remember that the bottom port on the D2-250-1 and D2-260 CPUs can act as a Modbus master.