

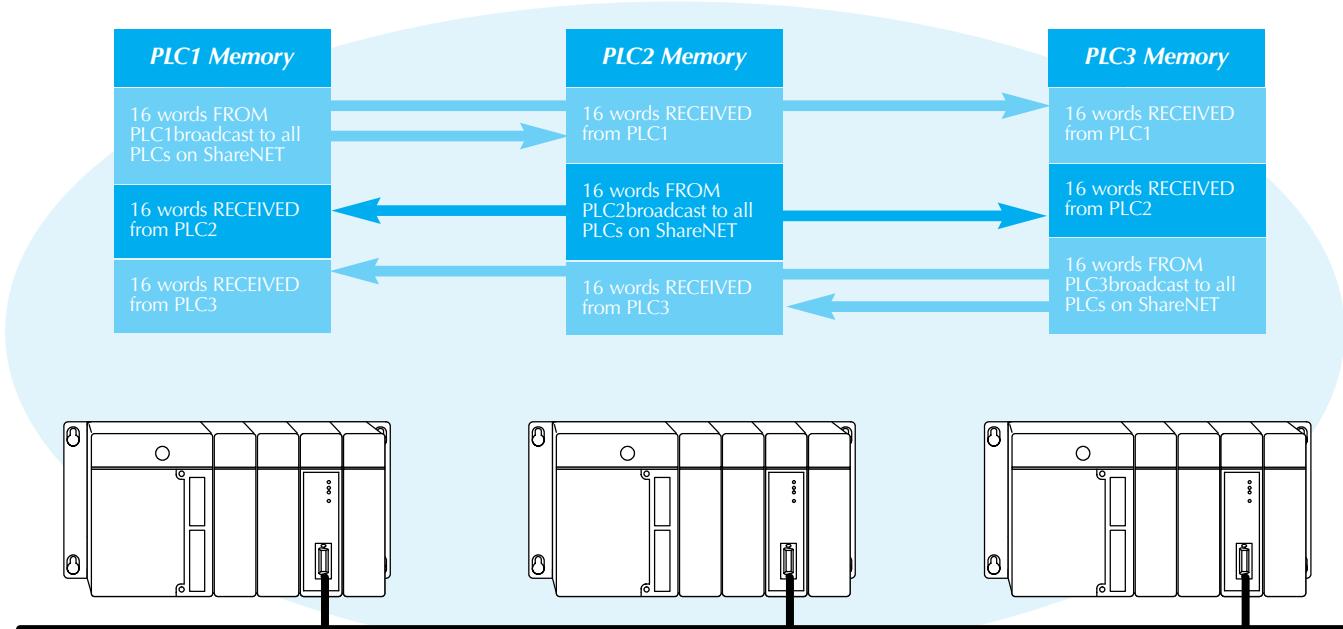
The Shared Data Network CoProcessor, F4-SDN, is used to share data at high speeds between a maximum of 16 DL405 CPUs. A Shared Data Network CoProcessor (SDN) is installed in each PLC rack on the shared data network.

Each F4-SDN on the shared data network constantly sends a block of data from its DL405 CPU to every other SDN on the network. Each SDN takes the data received from the network and writes the data to a block of V-Memory in its own DL405 CPU. The address of the module sending the data determines where in V-Memory the data is placed.

This network is useful in applications where multiple independent DL405 CPUs control different parts of the same process. The Shared Data Network allows each DL405 CPU on the network to know, in real time, what every other DL405 CPU on the network is doing.

Specifications	
<b>Module Type</b>	CoProcessor, Intelligent
<b>Modules per CPU</b>	Two maximum, must be in CPU Base
<b>Communication</b>	RS485 @ 250K Baud, CRC16 error detection
<b>Recommended Cable</b>	Belden 9841 or equivalent
<b>Maximum Distance</b>	4000 ft. (1219m) between extreme ends of the network
<b>Modules per Network</b>	16 (Address is user selectable)
<b>Maximum Number of V-Memory Locations Broadcast to the network per F4-SDN</b>	16 (32 Bytes), user-selectable from 1 to 32 bytes
<b>Maximum Number of V-Memory Locations Received from the network per F4-SDN</b>	256 (512 Bytes), up to 32 bytes may be received from each active F4-SDN
<b>Impact on PLC Scan Time</b>	Adds 4 to 28 ms
<b>Field Wiring Connector</b>	9-pin D-sub
<b>Internal Power Consumption</b>	235 mA maximum at 5VDC (supplied by base power supply)
<b>Operating Environment</b>	0°C to 60°C (32°F to 140°F), 5% to 95% humidity (non-condensing)
<b>Manufacturer</b>	FACTS Engineering

## ShareNET



This example uses 48 Shared Words of Data Between 3 PLCs