

Chapter 1

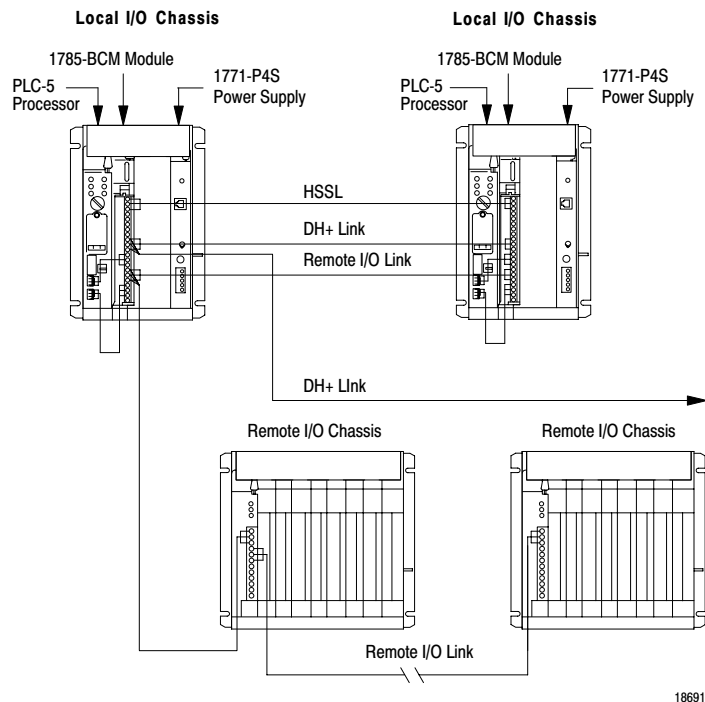
Understanding Your System

Consider using this technique:	If you are:
SFC	defining the order of events in a sequential process
Ladder Logic	- more familiar with ladder logic than with programming languages such as BASIC - performing diagnostics - programming discrete control

For detailed information about how you use ladder logic, see your programming software documentation.

Backup System

The following diagram shows a typical PLC-5 backup system:



In a PLC-5 backup system configuration, one system controls the operation of remote I/O and DH+ communications. This system is referred to as the “primary system.” The other system is ready to take control of the remote I/O and DH+ communications in the event of a fault in the primary system. This is referred to as the “secondary system.”

See chapter 2, “Choosing Hardware,” to select backup system hardware. See the PLC-5 Backup Communication Module User Manual, publication 1785-6.5.4, for more information on configuring a PLC-5 backup system.

Chapter 2 Choosing Hardware

Use the following modules in either primary or complementary I/O chassis opposite any type of module:

- Communication Adapter Module (1771-KA2)
- Communication Controller Module (1771-KE)
- PLC-2 Family/RS-232-C Interface Module (1771-KG)
- Fiber Optics Converter Module (1771-AF)
- DH/DH+ Communication Adapter Module (1785-KA)
- DH+/RS-232C Communications Interface Module (1785-KE)

Use the following modules in either primary or complementary I/O chassis opposite any type of module. However, these modules do not work as standalone modules; each one has an associated master module. Use care when placing the master modules in the I/O chassis (refer to the paragraph on Master/Expander I/O modules):

- Analog Input Expander Module (1771-E1, -E2, -E3)
- Analog Output Expander Module (1771-E4)
- Servo (Encoder Feedback) Expander Module (1771-ES)
- Pulse Output Expander Module (1771-OJ)

Selecting a PLC-5 Processor Backup System

A PLC-5 processor backup system contains **two** of each of the following hardware components:

- Classic PLC-5 processor module

Processor	Catalog Number
PLC-5/15	1785-LT Series B
PLC-5/25	1785-LT2

- 1785-BCM Series C Backup Control Module (for 2 channels)
- 1785-BEM Backup Expansion Module (for 2 additional channels)
- Power supply
- Local chassis

Important: The PLC-5 backup system does not back up I/O in the processor-resident local chassis. Do not install I/O in the processor-resident local chassis of a backed up system.

Refer to the PLC-5 Backup Communication Module User Manual, publication 1785-6.5.4, for more information on configuring a PLC-5 processor backup system.



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PRODUCT: 1785-BCM/C / PLC-5 Series C Backup Communication Module

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