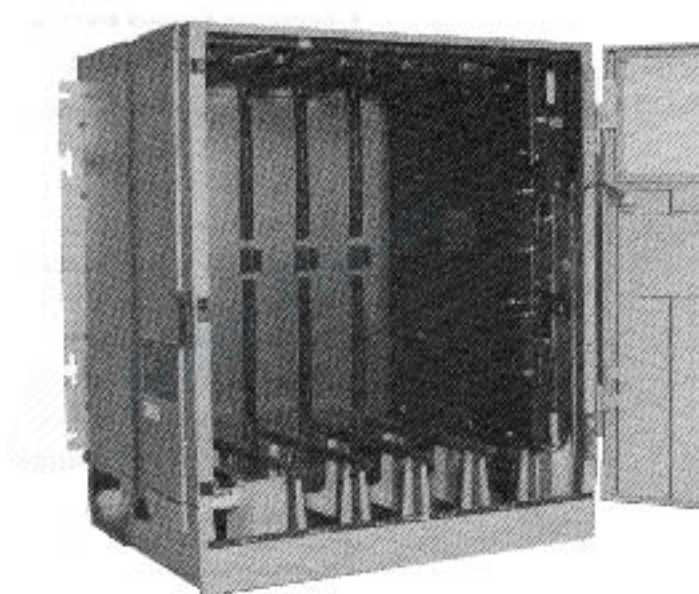


**ALLEN-BRADLEY**

Allen-Bradley PLC-3 Expansion System

Product Data



System Hardware

PLC-3 programmable controllers can be expanded to include as many as four processor chassis. Expansion increases the number of available module slots, allowing a PLC-3 system to be economically configured to meet many application needs, while leaving open the option for future expansion. The PLC-3 expansion system includes the following available hardware:

- PLC-3 Expansion Chassis (cat. no. 1775-A2)
- PLC-3 Expansion Modules (cat. no. 1775-LX): one per processor chassis
- PLC-3 Expansion Terminators (cat. no. 1775-CXT): only required in a three processor chassis system.
- PLC-3 Expansion Distribution panel (cat. no. 1775-CXD): only required in three and four processor chassis systems.

- PLC-3 Expansion Cable Set (cat. no. 1775-CX): one for a two processor chassis system, three for a three processor chassis system, and four for a four processor chassis system.

System Benefits

Expansion adds many benefits to a PLC-3 system:

- Added module slots
- Economically configured
- Four chassis expansion at anytime
- Minimal limitations on module placement
- Expansion modules are transparent to the system
- No additional I/O wiring or programming

PLC-3 Expansion Chassis

The PLC-3 expansion chassis consists of the following parts:

- Chassis (cat. no. 1775-AC)
- Expansion Chassis Door (cat. no. 1775-AD2)
- Chassis Power Cable (cat. no. 1775-CAP)

Features of the expansion chassis include:

- Heavy duty aluminum construction
- Six module slots
- Virtually slot independent module placement
- Free flow convection cooling
- Electro-mechanical interlock to guard against removal or insertion of modules while power is applied to the chassis

The expansion chassis is identical to the PLC-3 main chassis, except that the main chassis has a front panel that contains an alphanumeric display and keypad.

On the front of this module there is a red LED indicator labeled EBUS PARITY ERROR. This indicator, when illuminated, tells you that a parity error has occurred during a transmission between any 1775-LX expansion modules. The module will continue to operate when the LED is on. Cycling power to the processor should clear the EBUS PARITY ERROR indicator.

Module Placement

The PLC-3 expansion chassis provides six module slots with free flow convection cooling. Figure 1 illustrates typical module placement for optimum performance in a two chassis system. However, virtually any module will operate in any slot.

PLC-3 Expansion Distribution Panel

The expansion distribution panel is used for three and four chassis PLC-3 systems. It can be mounted in a 19 inch rack. Sixteen 50-pin connectors on the distribution panel connect to the expansion cable set, and in three chassis systems, to the terminators. There are no terminators needed for a two or four chassis system.

PLC-3 Expansion Cable Set

A PLC-3 expansion cable set consists of four 10-foot cables. Each cable has a 50-pin connector on each end which connects to either the expansion module or the expansion distribution panel.

PLC-3 Expansion System Terminators

These terminators are used in three chassis PLC-3 systems and are connected to Channel 3 of the 1775-CXD expansion distribution panel.

Related Publications

For additional information concerning the multi-chassis PLC-3 system, refer to the PLC-3 Programmable Controller Assembly and Installation Manual, publication 1775-800.