



Allen-Bradley Local I/O Adapter Module

(Cat. No. 1771-AL)

Product Data



Functions

The local I/O adapter module interfaces between I/O modules and a PLC-2-family processor for a local-I/O programmable controller system configuration to provide these functions:

- Receive output image table status data from the processor to update the status of all output terminals of each output module in the I/O chassis.
- Read input status data from all input terminals of each input module of the I/O chassis and transmit it to the processor for input image table update.

AB PLCs

Product Compatibility

The local I/O adapter module is compatible with the following PLC-2-family processors and I/O chassis:

Product:	Product Cat. No.
PLC-2/20 Processor PLC-2/30 Processor	1772-LP1, -LP2 1772-LP3
4-slot I/O chassis 8-slot I/O chassis 12-slot I/O chassis 16-slot I/O chassis	1771-A1, -A1B 1771-A2, -A2B 1771-A3, -A3B 1771-A4, -A4B
Power Supply	1771-P2, -P3, -P4, -P5 1772-P1, -P4 1777-P2, -P4

Connections

The back edge of the module connects to the chassis backplane connector in the first module slot on the left. On the front of the module are two connectors.

- The top connector provides connection to the processor or to an I/O chassis closer to the processor.
- The bottom connector provides connection to an I/O chassis further from the processor or for an I/O termination plug (cat. no. 1777-CP).

Indicators

On the front of the module are two diagnostic indicators:

- **ACTIVE** — This green indicator is normally on. It turns off when the transmission line from the processor or other adapter module on the channel does not have electrical integrity or power is off at either end.
- **RACK FAULT** — This red indicator is normally off. It turns on when the adapter module detects a fault.

I/O Addressing

The local I/O Adapter module supports two-slot I/O addressing only. This means that the processor always addresses two adjacent I/O module slots as a single I/O group. An I/O group corresponds to an input-image-table word and/or an output-image-table word in memory. However, a high-density (16 bit) I/O module corresponds to a full word in memory. Therefore, with the local I/O adapter module, you must restrict high-density I/O module placement. For example, if an I/O group contains a high-density input module, the second module must be either a high-density output module or a standard-density output module.

Specifications

Module Location

- I/O chassis adapter slot

Type of Communication

- Parallel

Backplane Current

- 700mA

Keying (Upper Connector) 5 to 95%

- between 38 and 40 (without condensation)

- between 54 and 56

Environmental Conditions

- Operating Temperature:
0° to 60°C (32° to 140° F)
- Storage Temperature:
-40 to 85°C (-40 to 185° F)
- Relative Humidity:
5 to 95 % (without condensation)

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