

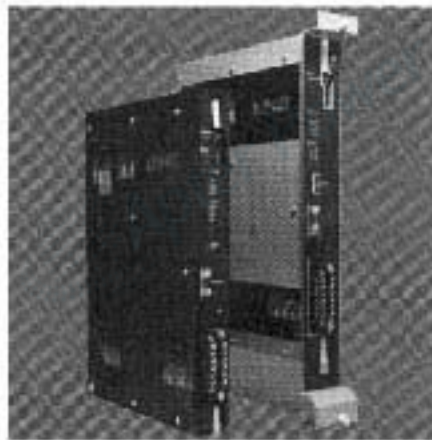


ALLEN-BRADLEY

I/O Scanner-Communication Adapter Module

(Cat. No. 1775-S5, -SR5)

Product Data



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I/O Scanner-Communication Adapter Module

Fast and Convenient Communications

The I/O Scanner-Communication Adapter Module (Cat. No. 1775-S5, -SR5) provides high-speed communication for PLC-3 family programmable controllers.

With four available communication channels, you can connect each channel to communication devices up to 10,000 cable-feet from the PLC-3 or PLC-3/10 Processor Chassis (Cat. No. 1775-A1, -A2, -A3).

The features, benefits, and functions are outlined below:

Table A
Scanner Features and Functions

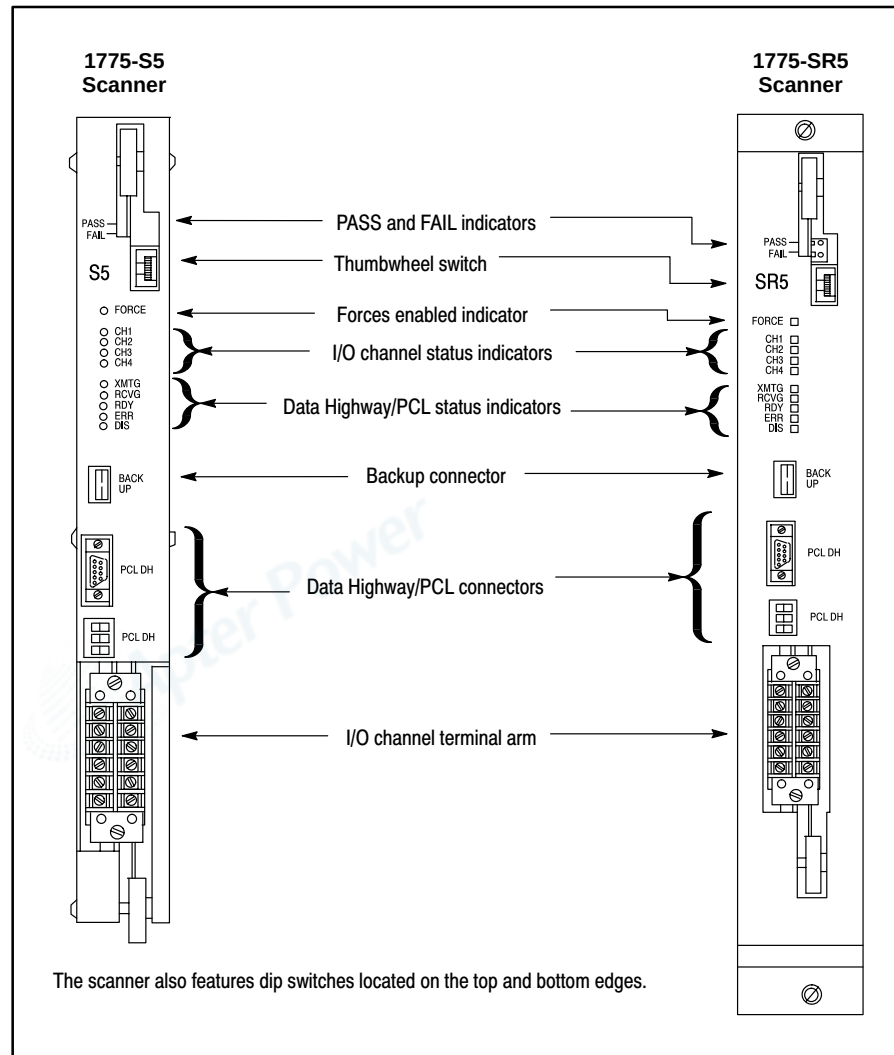
Features	Benefits	Functions
Four I/O communication channels	High speed I/O communication with up to 4,096 I/O	Communicate with I/O Adapter Modules in I/O chassis. You can connect up to 16 I/O chassis to one I/O channel.
I/O scan priority	Ability to execute a faster scan for selected I/O chassis	Scan the I/O chassis according to a sequence that you select.
Data Highway/ PCL Communication Channel	Your system becomes a station on a Data Highway or a Peer-Communication-Link (PCL)	Communicate with other Allen-Bradley controllers and/or computers on a Data Highway or a PCL channel. Also provides direct connection for an Industrial Terminal (Cat. No. 1784-T50) for programming interface.
Status indicators	Easy troubleshooting	Keeps you informed on the scanner's status including: • forces in the system • Data Highway/PCL channel • I/O communication channels
Thumbwheel switch	Easy identification of system with multiple scanners	Distinguishes one scanner from another. You can insert up to: • 15 scanners in a PLC-3 system • 2 scanners in a PLC-3/10 system
Backup connector	Backup system capability	Transfers control over to a hot backup PLC-3 or PLC-3/10 system if a fault shuts down the primary system.
Terminal arm	• I/O communication • Peer-to-peer communication • Backup communication	• Communicates with 1771 I/O chassis up to 10,000 cable feet away from the scanner via Twinaxial Cable (Cat. No. 1770-CD) • Communicates with scanners in up to six separate PLC-3 or PLC-3/10 systems for peer-to-peer communication via twinaxial cable • Communicates with a scanner in a backup PLC-3 or PLC-3/10 system for backup communication via twinaxial cable
Message procedure commands	Easy command programming for Data Highway or PCL communication	• Complex logic decisions, looping, and nesting • Symbolic representation of data and addresses • Embedded arithmetic expressions and logic operations • Error checking and reporting • Decimal, octal, or binary-coded decimal (BCD) data entry • Functions for converting data values to and from BCD

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Hardware Features

Your scanner fits into the PLC-3 or PLC-3/10 processor chassis and consists of the following hardware components (Figure 3):

Figure 3
Hardware Features on the Scanner



Electrostatic Discharge

Under some conditions, electrostatic discharge can degrade performance or damage the module. If you observe the following precautions, you can guard against electrostatic damage.

- Touch a grounded object to rid yourself of charge before handling the module.
- Do not touch the backplane connector or connector pins.
- When not in use, keep the module in its static-shielded bag.

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Nominal Scan I/O Times per I/O Adapter at 115.2 kbaud

- 4.5ms for 1 channel
- 5ms for 2 channels
- 5ms for 3 channels
- 6.5ms for 4 channels
- 8ms for 3 channels + Data Highway
- 9ms for 3 channels + PCL

Backplane Current

- 6.0A maximum from $\pm 5V$ DC
- 20mA maximum from $\pm 15V$ DC

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)

