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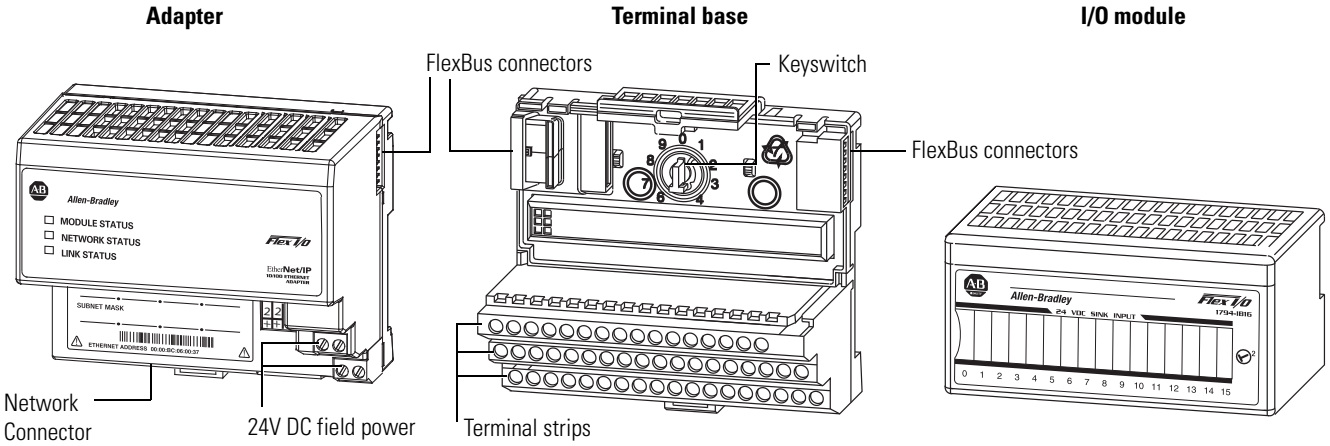
About the FLEX I/O and FLEX Ex I/O Systems

1794 FLEX I/O Overview

FLEX I/O offers:



FLEX I/O is a Distributed I/O System that connects to several Networks including EtherNet/IP, ControlNet and DeviceNet.

Flexible, low-cost, modular I/O for distributed applications. FLEX I/O offers all the functions of larger, rack-based I/O without the space requirements.

Independently select the I/O, termination style, and network to meet your application needs.

Two separate connection terminals for field power let you daisy-chain power connections to adjacent terminal bases.

One adapter communicates with up to eight I/O modules. Allows connection to:

- 256 digital input/output points, or
- 96 analog input/output points, or
- mix of I/O to meet your needs.

Modularity of FLEX I/O system provides choice of network and ease of expansion. The wiring terminations are done almost entirely on the terminal base. Terminal base termination selection includes screw-clamp, spring-clamp, and cage-clamp to wire directly to 2-, 3-, or 4-wire devices. Additional options of D-shell, knife disconnect, and fused terminal bases are available.

Adjustable keyswitch prevents incorrect module insertion into a preconfigured terminal base.

Terminal bases can be exchanged without moving other bases in your system.

If desired, connect individual power supplies to each base to isolate modules. Plug the I/O module into the terminal base to connect the I/O bus and field devices.

Remove and insert modules under power. No direct wiring to the module enables you to change modules without disturbing field wiring or system power.

Mix and match I/O modules. There is a wide variety of digital, analog, and specialty modules.

Each FLEX I/O system contains at least one adapter, one terminal base, and one I/O module.

You can power the system with a FLEX power supply (1794-PS13 or -PS3), a 1606 switched mode power supply, or any other compatible power source. Use the terminal block on the terminal base to wire your field devices directly. Wiring directly saves you:

- installation and testing time
- multiple, long wiring runs and external terminal blocks
- control cabinet panel space

FLEX I/O provides additional savings if system problems develop. Combining your field-wiring terminations and the I/O interface into the same location saves you time and money by making your system easier to maintain and troubleshoot. Additionally, the full-featured FLEX I/O system lets you, in non-hazardous location, remove and insert modules under backplane power without disrupting your system.

Your FLEX I/O system can communicate on EtherNet/IP, ControlNet, DeviceNet, and many other open networks including, but not limited, to Remote I/O and PROFIBUS DP.

Adapters and other components are available for adding to your system as your specific application requirements change.