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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.

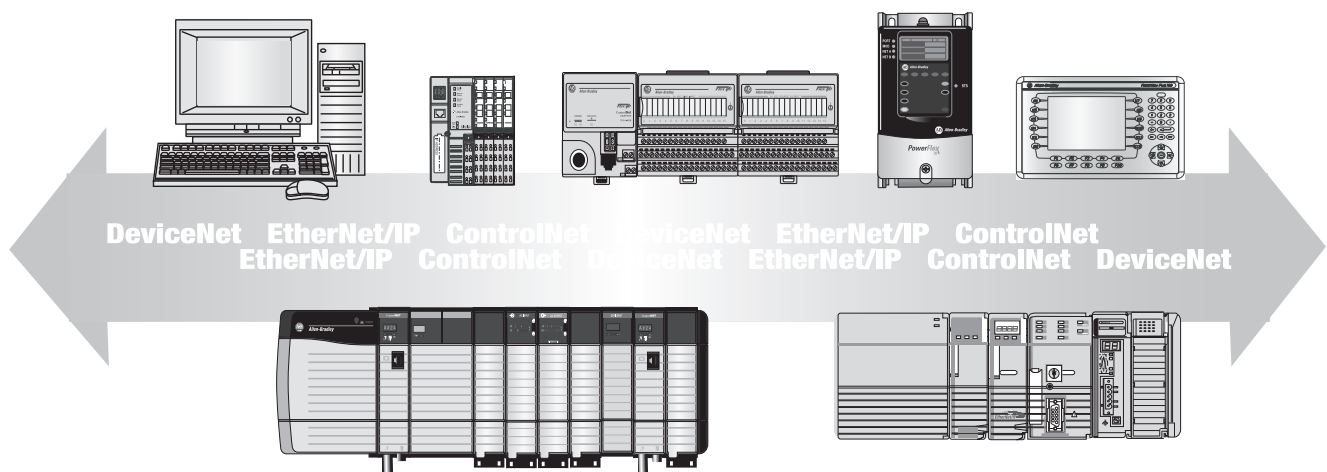
You can power the system with a FLEX power supply (1794-PS13 or -PS3), a 1606 switched mode power supply, or any other compatible power source. Use the terminal block on the terminal base to wire your field devices directly. Wiring directly saves you:

- 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.



**FLEX I/O ControlNet Adapter Specifications**

<b>Attribute</b>	<b>1794-ACN15, 1794-ACN15K, 1794-ACNR15, 1794-ACNR15XT</b>
I/O module capacity	8
Communication rate	5 Mbps
Power consumption at 24V	7.9 W
Inrush current at 24V	23 A for 2 ms
Power dissipation, max	4.6 W @ 19.2V DC
Thermal dissipation	15.7 BTU/hr @ 19.2V DC
Power supply 24V current load	330 mA
Power supply 24V output current, max	450 mA
Power supply input voltage, nom	24V DC
Operating voltage range	19.2...31.2V DC (includes 5% AC ripple)
ControlNet cable	Allen-Bradley RG-6/U Quad shield coax, part no. 1786-RG6 (standard-PVC CM-CL2) or 1786-RG6F/A (high-flex)
Isolation voltage	Tested @ 850V DC for 1 s, user power to system
Dimensions (HxWxD), approx	87 x 94 x 92 mm 3.4 x 3.7 x 3.6 in.

**DeviceNet Network**

The DeviceNet network is an open low-level network that provides connections between simple industrial devices (such as sensors and actuators) and higher-level devices (such as PLCs and computers). The DeviceNet network uses the proven Common Industrial Protocol (CIP) to provide the control, configure, and data collection capabilities for industrial devices. The DeviceNet network is a flexible network that works with devices from multiple vendors.

The following illustration shows the FLEX I/O platform on a DeviceNet network.