



PROGRAMMABLE AUTOMATION CONTROLLERS

CompactLogix System

Overview

Perfect for smaller, machine-level control applications

CompactLogix brings together the benefits of the Logix platform – common programming environment, common networks, common control engine – in a small footprint with high performance. Combined with Compact™ I/O, the CompactLogix™ platform is perfect for tackling smaller, machine-level control applications, with or without integrated motion, with unprecedented power and scalability. CompactLogix is ideal for systems that require standalone and system-connected control over EtherNet/IP™, ControlNet™, or DeviceNet™. Think every place you need economical, reliable control.



The family of CompactLogix controllers can provide:

- high functionality in an economical platform
- rackless I/O for flexible installation
- packaged controller forms to lower costs and simplify configuration
- analog, digital and specialty modules that cover a wide range of applications
- advanced system connectivity to EtherNet/IP, ControlNet, and DeviceNet Networks
- truly integrated motion control capability

With a user memory ranging from 512K to 3Mb, CompactLogix controllers offer integrated serial (integrated RS-232-C ports for SCADA, ASCII, or peer-to-peer communication), EtherNet/IP or ControlNet channels, modular DeviceNet communications and local I/O capacity that can range from 3 to 30 I/O modules.

Using CompactLogix controllers on EtherNet/IP or ControlNet networks, you have the means to cost-effectively integrate a simple machine or application into a plant-wide control system. For example, you can use a CompactLogix 1769-L23E, L32E or L35E controller to connect a suite of scalable products, such as the Allen-Bradley PanelView™ Plus operator interface, POINT I/O™, and the PowerFlex™ 70 drive, for a full-scale integrated solution. Both ends of the architecture provide a direct link from real-time production information to manufacturing quality or execution systems (and back again), providing a more accurate view of plant operations and more control options than ever before to achieve this integration.

Use CompactLogix for small- to medium-size axes solutions. Typically, these applications are machine-level control applications with motion axes, I/O requirements and network connectivity requirements. Using the 1768-L43 controller with the 1768-M04SE SERCOS adapter module for motion control of SERCOS drives provides a truly integrated motion control solution at an economical price. Add an optional 1768-ENBT communication module for EtherNet/IP communications for plant-wide control.

For advanced real-time control and information capabilities:

- Connect to an Ethernet network through the integrated port on the CompactLogix 1769-L23E or 1769-L35E controller or by using our EtherNet/IP interface (1761-NET-ENI). The 1761-NET-ENI EtherNet/IP interface is a less expensive alternative means of connection that provides peer-to-peer and program upload/download capabilities
- Connect to a ControlNet network through the integrated port on the 1769-L32C or -L35CR controllers
- Connect any CompactLogix controller to a DeviceNet network using the 1769-SDN module

- L2x Configuration diagram
- L3x Configuration diagrams
- L43 Configuration diagram

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