

Controllers

CompactLogix Controllers Overview

The CompactLogix platform 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 modules, the CompactLogix platform is perfect for tackling smaller, machine-level control applications, with or without simple motion, with unprecedented power and scalability. A CompactLogix platform is ideal for systems that require standalone and system-connected control over EtherNet/IP, ControlNet, or DeviceNet networks.

For detailed specifications, see CompactLogix Controllers Specifications, publication 1769-TD005



| | 1769-L23x Controllers | 1769-L3x Controllers | 1768-L4x Controllers | 1768-L4xS Controllers | 5370 Controllers |
|--|--|---|--|--|--|
| Controller application | Small applications Embedded I/O modules | General purpose | Integrated motion | Integrated safety Integrated motion | <ul style="list-style-type: none"> • Small to mid-size applications • General purpose • Integrated motion |
| Controller tasks | <ul style="list-style-type: none"> • 3 tasks • 16 programs/task (1 continuous) • Event tasks: consumed tag and EVENT instruction triggers | 4, 6, or 8 tasks (1 continuous) <ul style="list-style-type: none"> • Event tasks: consumed tag and EVENT instruction triggers | <ul style="list-style-type: none"> • 16 tasks (1 continuous) • Event tasks: consumed tag, EVENT instruction, axis, and motion event triggers | <ul style="list-style-type: none"> • 16 tasks (1 continuous) • Event tasks: consumed tag, EVENT instruction, axis, and motion event triggers | <ul style="list-style-type: none"> • 32 tasks • 100 programs/task |
| User memory | 512 KB | 512 kB to 1.5 MB | 2 MB or 3 MB | <ul style="list-style-type: none"> • 2 MB standard, 0.5 MB safety • 3 MB standard, 1 MB safety | 384 kB to 3 MB |
| Built-in communication port options | <ul style="list-style-type: none"> • 1 EtherNet/IP port, 1 RS-232 serial port • 2 RS-232 serial ports | <ul style="list-style-type: none"> • 2 RS-232 ports • 1 ControlNet port, 1 RS-232 serial port • 1 EtherNet/IP port, 1 RS-232 serial port | <ul style="list-style-type: none"> • 1 RS-232 serial port | <ul style="list-style-type: none"> • 1 RS-232 serial port | <ul style="list-style-type: none"> • 2 EtherNet/IP • 1 USB |
| Communication options | <ul style="list-style-type: none"> • EtherNet/IP • DeviceNet | <ul style="list-style-type: none"> • EtherNet/IP • ControlNet • DeviceNet | <ul style="list-style-type: none"> • EtherNet/IP • ControlNet • DeviceNet | <ul style="list-style-type: none"> • EtherNet/IP (standard and safety) • ControlNet (standard and safety) • DeviceNet (standard) | <ul style="list-style-type: none"> • Dual-port EtherNet/IP • DeviceNet |