CompactLogix™ Controller Product Portfolio

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Rockwell Automation

Controller Portfolio

Micro control platform
Micro800™ controller

- Low acquisition cost
- Easy connectivity
- Simple programming tools
- Ideal for standalone machines

Standard machines
CompactLogix™ controller

- Multiple control disciplines
- Flexible and scalable
- Real-time information-enabled
- Standard, unmodified Ethernet
- One common integrated design environment
- Local and distributed I/O options

Complex machines & process
ControlLogix® controller

Process safety
AADvance/Trusted

- Scalable redundancy for fault tolerance
- Provides safety and availability requirements
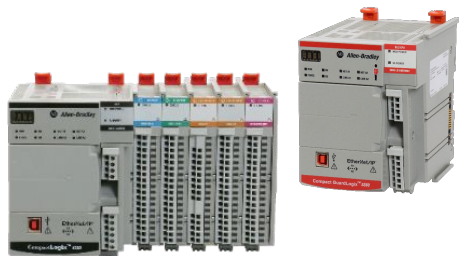- Distributed processing power

CompactLogix™ controllers

CompactLogix™ 5480 controller

- Integrated Motion on EtherNet/IP up to 150 axes
- Includes three GbE EtherNet/IP ports supporting both dual IP and Linear or Device Level Ring topologies up to 250 nodes
- Enables high-speed I/O, motion control
- Provides a Logix based real-time controller that runs in parallel to an instance of Windows 10 IoT Enterprise
- Enhanced security features

CompactLogix™ 5380 controller

- Integrated Motion on EtherNet/IP up to 32 axes
- Two Ethernet ports for dual IP or support for linear and Device Level Ring topologies for up to 180 nodes
- Enables high-speed I/O, motion control
- Integrated safety up to SIL 2, PLd Cat. 3 versions
- Enhanced security features

CompactLogix™ 5370 controller

- Integrated Motion on EtherNet/IP up to 16 axes
- Linear and Device Level Ring network topologies for up to 80 nodes
- Integrated safety up to SIL 3, PLe Cat. 4 versions
- On-Machine™ version

Multiple disciplines

Flexible and scalable

One common design environment

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CompactLogix™ 5480 controller

Multiple disciplines

• Integrated Motion on EtherNet/IP™ up to 150 axes

• Enables high-speed I/O, motion control

• Builds upon the same high-performance architecture first introduced with the ControlLogix® 5580 and CompactLogix™ 5380 controllers

Enhanced productivity with Logix

• Includes three GbE EtherNet/IP™ ports supporting both dual IP and Linear or Device Level Ring topologies up to 250 nodes

• Provides a Logix based real-time controller that runs in parallel to an instance of Windows 10 IoT Enterprise

• Supports up to 31 local Compact 5000™ I/O modules

• Offers simplified architectures with built-in communications, peripheral connectivity,

• Integrated DisplayPort and multiple high-speed Gigabit Ethernet ports

Security capabilities

• Enhanced security features

• Offers embedded Logix security with FactoryTalk® Security user authentication and authorization

CompactLogix™ 5380 controller

High performance

- Dual one Gb Ethernet port enables high-performance I/O and Integrated Motion on EtherNet/IP™ up to 32 axes
- Controller firmware is optimized for maximum performance

Enhanced productivity with Logix

- Two Ethernet ports for dual IP or support for Linear and Device Level Ring topologies for up to 180 nodes
- Supports up to 31 local I/O modules and memory from 0.6 … 10 MB
- Onboard display allows for enhanced diagnostics and troubleshooting
- USB port supports local programming, troubleshooting and firmware updates

Security capabilities

- Digitally signed and encrypted controller firmware
- Controller-based change detection and logging
- Role-based access control to routines and Add-On Instructions
- Ability to enable and disable all embedded ports

Compact GuardLogix® 5380 Controller

High performance

- Dual one Gb Ethernet port enables high-performance I/O and Integrated Motion on EtherNet/IP™ up to 32 axes
- Controller firmware is optimized for maximum performance
- Safety program execution optimized for high performance

Enhanced productivity with Logix

- Two Ethernet ports for dual IP or support for Linear and Device Level Ring topologies for up to 180 nodes
- Supports up to 31 local I/O modules and standard memory from 0.6 … 10 MB
- Supports safety memory from 0.3…..5 MB
- Onboard display allows for enhanced diagnostics and troubleshooting
- USB port supports local programming, troubleshooting and firmware updates

Security capabilities

- Digitally signed and encrypted controller firmware
- Controller-based change detection and logging
- Role-based access control to routines and Add-On Instructions
- Ability to enable and disable all embedded ports

CompactLogix™ 5370 L3 Controller

Multiple disciplines

• Dual Ethernet ports support Integrated Motion over EtherNet/IP™ for up to 16 axes of motion

• Supports Device Level Ring and Linear topologies

• Control at the machine level for applications requiring smaller amounts of I/O

Enhanced productivity with Logix

• Status indicators offer immediate status of communications, module health and I/O activity

• Local expansion modules support up to 30 local expansion modules with 1769 I/O for increased functionality

• USB port supports high performance and speed for programming and firmware updates

Safety capabilities

• Three-position mode switch selector provides an added layer of security

• Access door allows easy access to the SD card and mode switch

Compact GuardLogix® 5370 Controller

High performance

- Provides integrated safety and motion in a controller
- Supports integrated safety up to SIL 3, PLe Cat. 4
- Supports up to 16 axes of motion on EtherNet/IP™

Enhanced productivity with Logix

- Removable one GB SD card improves data integrity
- Support for kinematics removes the need for additional robot controllers and software
- Reduce need for a network switch with Device Level Ring and Linear support
- Safety status indicators provide on-going safety status about the system
- USB port supports high performance and speed for programming and firmware updates

Safety capabilities

- Three-position mode switch selector provides an added layer of security
- Access door allows easy access to the SD card and mode switch

CompactLogix™ 5370 L2 Controller

Multiple disciplines

- Dual Ethernet ports support Integrated Motion over EtherNet/IP™ for up to four axes of motion

- Supports Device Level Ring and Linear topologies

Enhanced productivity with Logix

- Status indicators offer immediate status of communications, module health and I/O activity

- Embedded power supply offers a smaller form factor for maximized cabinet space

- Universal inputs and outputs offer increased configuration flexibility with Embedded Universal Analog inputs/outputs

- High-Speed Counter inputs support increased performance

- Helps enable more simplified device replacement

- Supports easier initial configuration and deployment

- USB port supports high performance and speed for programming and firmware updates

CompactLogix™ 5370 L1 Controller

Multiple disciplines

- Dual Ethernet ports support Integrated Motion over EtherNet/IP™ for up to two axes of motion

- Supports Device Level Ring and Linear topologies

- Supports up to two axes kinematics for simple articulated robotics

Enhanced productivity with Logix

- Increased storage capacity offers up to one MB of user memory for increased storage capabilities

- USB port supports high performance and speed for programming and firmware updates

- Status indicators offer immediate status of communications, module health and I/O activity

- Combines the Logix platform with the flexibility of POINT I/O™ modules

Armor™ CompactLogix™ and
Armor™ Compact GuardLogix® Controllers

Multiple disciplines

- Standard and safety control on the machine
- One supports Integrated Motion over EtherNet/IP™ up to 16 axes
- Integrated safety control up SIL 3, PLe, Cat. 4
- Dual Ethernet ports support Linear and Device Level Ring topologies
- Rated for Ingress Protection (IP67) and UL Type four applications and environments

Enhanced productivity with Logix

- Removable one-GB SD card provides nonvolatile memory and permanently stores user programs and tag data
- Four onboard status displays allow for enhanced diagnostics and troubleshooting
- Built-in power supply enables power for each device
- Minimizes hardware in the control cabinet
- Quick-connect cabling streamlines system wiring

Safety capabilities

- Safety status indicators provide on-going safety status
- Easy access to the controller mode switch, USB port, SD card and power supply fuse via four captive screws

CompactLogix™ product portfolio