![Rockwell Automation logo]

Rockwell Automation

MULTIVISTA

CompactLogix™ Controllers

Multiple Disciplines Flexible and scalable
One Common Design Environment

One stop solution for industrial products and services

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

CompactLogix™ Controllers

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CompactLogix™ 5370/1769: L3 Anatomy

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

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

Security Capabilities

- Three-position mode switch selector provides an added layer of security
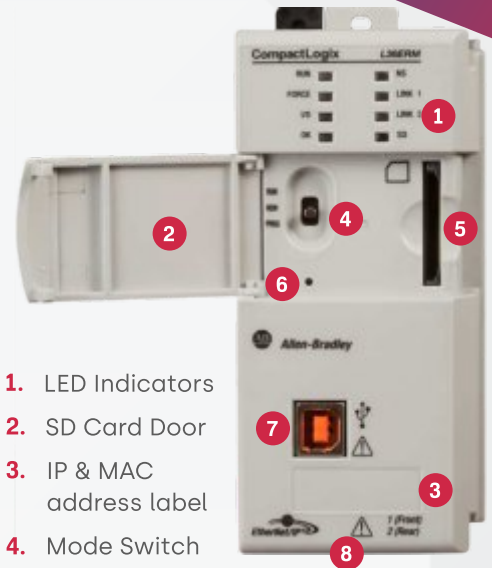
1. LED Indicators
2. SD Card Door
3. IP & MAC address label
4. Mode Switch
5. SD Card
6. Reset Switch
7. USB Port
8. Dual Ethernet Port w/ DLR EtherNet/IP -CIP Motion

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

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
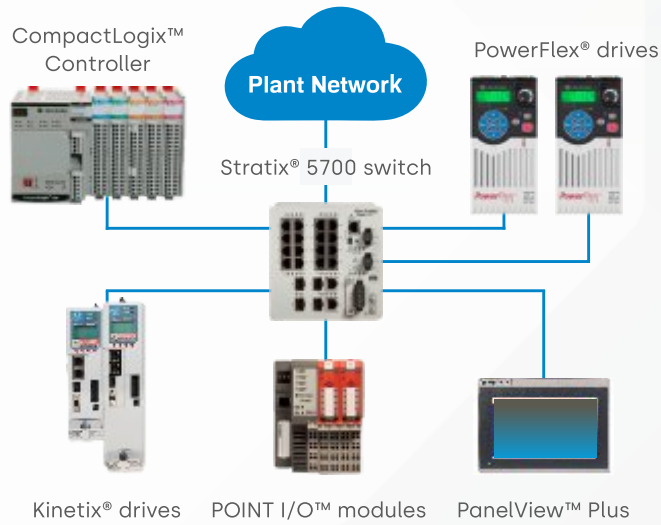
Security Capabilities

- Digitally signed and encrypted controller firmware
- Controller-based change detection and logging
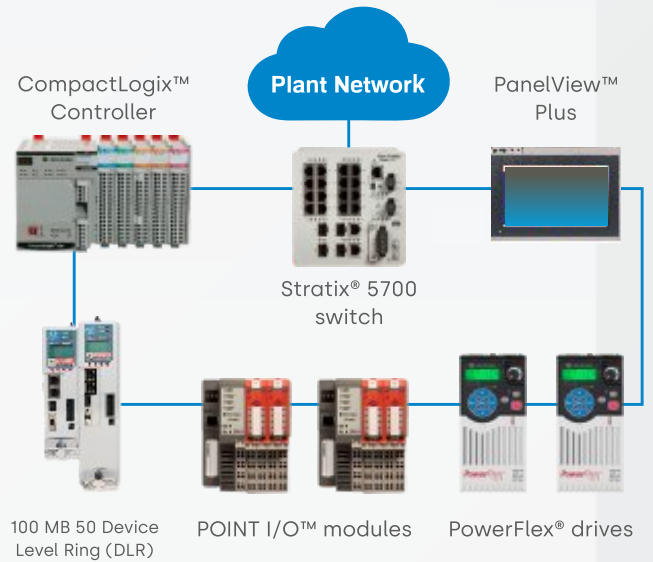- Role-based access control to routines and Add-On Instructions

1. Four-digit display
2. Status indicators
3. Reset button
4. USB port
5. 2 x Ethernet port
6. Power status indicator status
7. MOD power terminal (System power)
8. SA power terminal (Field power)

CompactLogix™ Controllers

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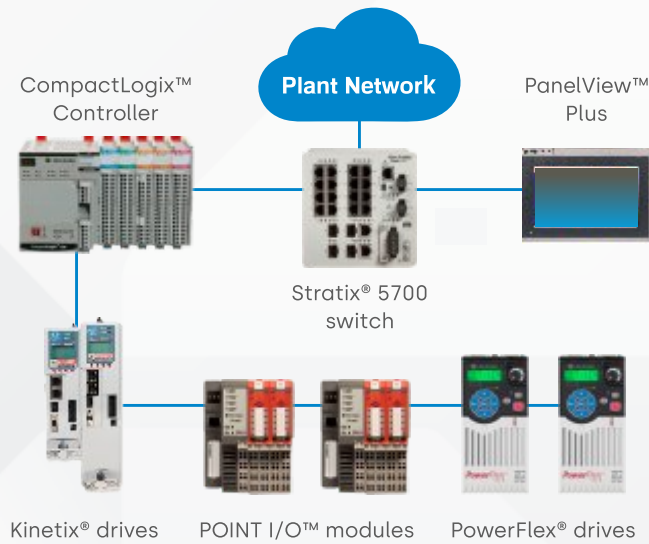
Compact Logix™ Machine Architecture

Star Architecture

CompactLogix™ Controller

Plant Network

PowerFlex® drives

Stratix® 5700 switch

Kinetix® drives

POINT I/O™ modules

PanelView™ Plus

DLR Architecture

CompactLogix™ Controller

Plant Network

PanelView™ Plus

Stratix® 5700 switch

100 MB 50 Device Level Ring (DLR)

POINT I/O™ modules

PowerFlex® drives

Compact Logix™ Machine Architecture

Linear Architecture

CompactLogix™ Controller

Plant Network

PanelView™ Plus

Stratix® 5700 switch

Kinetix® drives

POINT I/O™ modules

PowerFlex® drives

Dual IP Architecture

CompactLogix™ Controller

Plant Network

PowerFlex® drives

Stratix® 5700 switch

Compact 5000™ I/O rack

Kinetix® drives

POINT I/O™ modules

PanelView™ Plus

CompactLogix™ Controllers

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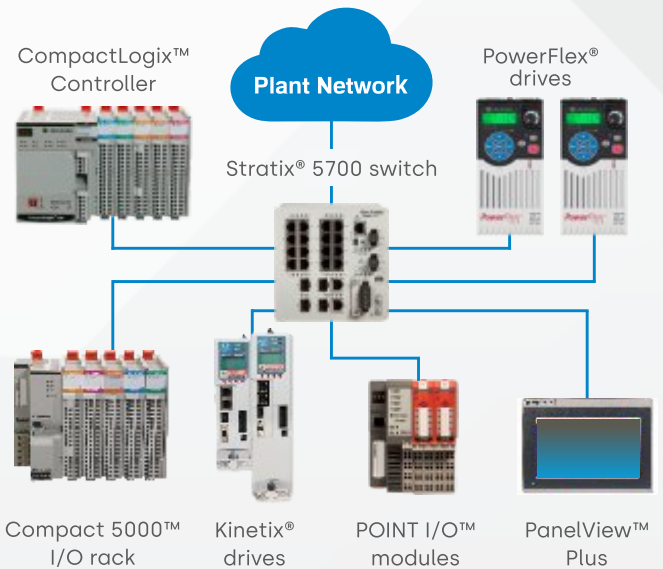
CompactLogix™ 5480 Controller

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™ 5480 Controller Ethernet Interfaces

Ethernet Interfaces

B1
- GbE (EtherNet/IP)
- Support for I/O, motion, drives etc.
- Allows domain name, primary and secondary DNS server address attributes ("Uplink" use case)

A2
- GbE (EtherNet/IP)
- Support for I/O, motion, drives etc.
- Individual IP or linear/DLR (w/A1)

A1
- GbE (EtherNet/IP)
- Support for I/O, motion, drives etc.
- Individual IP or linear/DLR (w/A2)

X1
- GbE
- Dedicated Windows 10 IoT Interface
- No bridging of I/O

Compact GuardLogix® 5370 Controller (Safety PLC)

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 & 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.

Security Capabilities

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

Compact Logix

Group	Controller	Internal Memory	Rack IO Module Expansion	RIO Expansion	Ethernet IP Support	Modbus TCP/IP Support	Third Part Protocol Support via Gateway	Redundancy (Hot Backup/ Soft Redundancy)	Embedded Port	Ethernet IP Node	CIP Motion Capable with ERM Controllers
5370/1769	L1	0.3-1MB	✔	✔	✔	✔	✔	✔	USB/ Dual Ethernet	8	✔
	L2	0.7-1MB	✔	✔	✔	✔	✔	✔	USB/ Dual Ethernet	16	✔
	L3	1-5MB	✔	✔	✔	✔	✔	✔	USB/ Dual Ethernet	80	✔
5380/5069	5380/5069	0.6-10MB	✔	✔	✔	✔	✔	✔	USB/ Dual Ethernet	16-180	✔
5480/5069	5480/5069	3-20MB	✔	✔	✔	✔	✔	✘	USB/ Dual Ethernet	60-250	✔

Notes: Applicable Only for 5370 & 5380

1. Third Part Protocol: Profibus/Profinet/IEC 61850/ Modbus RTU, ASCII etc
2. These controllers Support with ERMS Options and up to SIL3
3. Supported Network Topologies: Star, Linear, DLR & Dual Ethernet IP
4. ER - Enhanced Redundancy, M - Motion, S - Safety

Notes: Applicable Only for 5480

1. Third Part Protocol: Profibus/Profinet/IEC 61850/Modbus RTU, ASCII etc
2. These controllers Support with ERMS Options
3. High Performance Controller with On Board Windows 10 Computer
4. Supported Network Topologies: Star, Linear, DLR & Dual Ethernet IP
5. ER - Enhanced Redundancy, M - Motion, S - Safety

CompactLogix™ Controllers

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Studio 5000 View Designer

## Configure, program and maintain your operator interfaces

Studio 5000 View Designer is the design environment for the PanelView™ 5000 family of operator terminals. The integration of the PanelView 5000 terminals with Studio 5000 View Designer helps build modern applications more easily and improve operator performance. The View Designer application provides an intuitive, modern design environment and enhances integration between the control system and operator interface to improve programming efficiency and runtime performance.

- Preconfigured banner, alarm summary and diagnostic displays help reduce design time
- Simplify your engineering with shared tags between HMI and controller
- Eliminate alarm programming and reduce network traffic with Logix-tag based alarms
- High-speed button control provides quick response and feedback for machine jogging applications
- Create custom, re-usable add-on graphics to save engineering time and promote consistency
- Multi-language support with a language switching feature enables users to switch between languages on the PanelView 5000 terminals to support global user needs
- Emulation capabilities enable users to test run a project without downloading to decrease overall project risks
- Data logging and historical trending features show historical data immediately when the screen is displayed, helping decrease troubleshooting time
- Built-in VNC server enables a remote VNC client for monitoring and troubleshooting

Studio 5000 software package options

	Studio 5000 edition		
	Professional	Standard	Lite
Architect	✓	✓	✓
Logix Designer	✓	✓	✓
Controllers supported	all	all	CompactLogix only
Editors included (before add-ons1)	all	ladder only	all
View Designer	✓	✓	✓
Logix Emulate2 N/A	✓	⊕	N/A
Application Code Manager Lite3	✓	✓	✓
Simulation Interface			
Simulation Interface Developer	⊕	⊕	⊕
Simulation Interface Run-time	⊕	⊕	⊕

Tags created in Logix Designer are automatically available in View Designer.

| **CompactLogix™ Controllers**
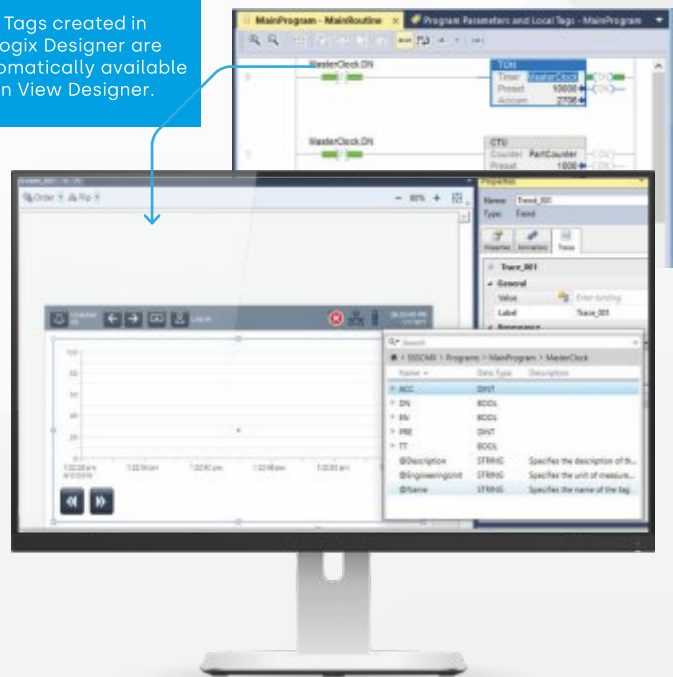
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Compact Logix Control Systems

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