

## CompactLogix 5380 and Compact GuardLogix 5380 controllers

Help future proof your system and enable your Connected Enterprise

CompactLogix™ 5380 and Compact GuardLogix® 5380 controllers help enable faster system performance, capacity, productivity and security to meet the growing demands of smart machines and equipment for manufacturing.

All CompactLogix 5380 and Compact GuardLogix 5380 controllers use the same development environment, Studio 5000 Logix Designer® application, combining elements of design into one standard framework that can optimize productivity and reduce time to commission. The application also manages safety, saving you the worry of partitioning logic to isolate safety. [Learn more about Studio 5000® design software.](#)

### Advantages

#### Enhanced to maximize system performance

- Increased memory capacity of up to 20%
- Enables high-speed I/O, motion control and Device Level Ring (DLR) and Linear topologies with dual gigabit (Gb) embedded Ethernet ports
- Easy diagnostics and troubleshooting with controller status and fault display
- Offers additional Ethernet connectivity for user memory >2 MB starting with Studio 5000 Logix Designer® application, version 31 or later
- One controller platform for standard and safety application
- Enhanced security with controller-based change detection, logging and encrypted firmware
- Allows role-based access control to routines and Add-On Instructions

#### Scalable safety solution

- Achieve up to SIL 3/PLe performance
- Optimized to enable faster safety reaction time
- Supports Compact 5000™ I/O safety modules
- Integrated safety functions with drives and motion



## CompactLogix 5380 Standard Controller

Meet the growing demands of smart machines

### Smart

- USB port supports local programming, troubleshooting and updates
- Leverage the same code from large to small systems with Studio 5000 Logix Designer® application

### Secure

- Increased security with encrypted controller firmware helps protect against malicious intent
- Manage better with role-based access control to routines and Add-On Instructions

### Productive

- Integrated motion on EtherNet/IP™ up to 32 axes
- Supports up to 31 local Compact 5000™ I/O modules



CompactLogix™ 5380 controller

## Compact GuardLogix 5380 Safety Controller

Right-sizing your safety solutions to optimize cost and performance

### Scalable

- Achieve up to SIL 2/PLD with 1oo1 architecture or up to SIL 3/PLD with 1oo2 architecture
- Standard memory options from 0.6...10 MB
- Safety memory options from 0.3...5 MB
- Communication options for up to 180 EtherNet/IP nodes

### Integrated

- Standard and safety control in one controller, one software and one network
- Mix and match safety and standard I/O

### High performance

- Optimized for faster safety reaction time to reduce safe distance and risk of injury
- Conformal coated options for harsh environments



Compact GuardLogix® 5380 SIL 3 controller



Compact GuardLogix 5380 SIL 2 controller

## Integrated Motion and Safety over EtherNet/IP™

Simplifying multi-disciplined design and control with one network

Safety Task Logix – Safety Instructions



Compact GuardLogix® 5380 controller, SIL 2/PLD and SIL 3/PLe

Stratix® managed switch



1 Gb

1 Gb

Kinetix® 5700 servo drive



Motor

E-stop



Light curtain



Compact 5000™ standard and safety I/O



## Environmental Specifications and Certifications for Standard and Safety Controllers

Temperature	Operating: 0 °C < Ta < +60 °C (+32 °F < Ta < +140 °F) Storage: -40...+85 °C (-40...+185 °F)
Relative humidity	5-95% noncondensing
Vibration	5 g at 10...500 Hz
Shock	Operating: 30 g Nonoperating: 50 g
Certifications	c-UL-us, CE, C-Tick, ATEX, IECEx, KC, UL, EtherNet/IP For more details and a full list of product certifications, visit <a href="http://rok.auto/productcertifications">rok.auto/productcertifications</a>

## CompactLogix 5380 Standard Controller



Catalog number*	Memory size	I/O expansion	Motion axes	Conformal coated	EtherNet/IP™ nodes
5069-L306ER	0.6 MB	8	0	-	16
5069-L306ERM	0.6 MB	8	2	-	16
5069-L310ER	1 MB	8	0	-	24
5069-L310ER-NSE	1 MB	8	0	-	24
5069-L310ERM	1 MB	8	4	-	24
5069-L320ER	2 MB	16	0	-	40
5069-L320ERM(K)	2 MB	16	8	Yes	40
5069-L330ER	3 MB	31	0	-	60
5069-L330ERM(K)	3 MB	31	16	Yes	60
5069-L340ER	4 MB	31	0	-	90
5069-L340ERM	4 MB	31	20	-	90
5069-L350ERM(K)	5 MB	31	24	Yes	120
5069-L380ERM	8 MB	31	28	-	150
5069-L3100ERM	10 MB	31	32	-	180

\*See [Technical Data, 5069-TD002](#) for additional information.

Meeting the latest global safety standards with capability to help reduce costs and improve productivity

## Compact GuardLogix 5380 SIL 2 Controller



Catalog number*	Memory size		I/O expansion	Motion axes	Conformal coated	EtherNet/IP™ nodes
	Standard	Safety				
5069-L306ERS2	0.6 MB	0.3 MB	8	-	-	16
5069-L306ERMS2	0.6 MB	0.3 MB	8	2	-	16
5069-L310ERS2	1 MB	0.5 MB	8	-	-	24
5069-L310ERMS2	1 MB	0.5 MB	8	4	-	24
5069-L320ERS2(K)	2 MB	1 MB	16	-	Yes	40
5069-L320ERMS2(K)	2 MB	1 MB	16	8	Yes	40
5069-L330ERS2(K)	3 MB	1.5 MB	31	-	Yes	60
5069-L330ERMS2(K)	3 MB	1.5 MB	31	16	Yes	60
5069-L340ERS2	4 MB	2 MB	31	-	-	90
5069-L340ERMS2	4 MB	2 MB	31	20	-	90
5069-L350ERS2(K)	5 MB	2.5 MB	31	-	Yes	120
5069-L350ERMS2(K)	5 MB	2.5 MB	31	24	Yes	120
5069-L380ERS2	8 MB	4 MB	31	-	-	150
5069-L380ERMS2	8 MB	4 MB	31	28	-	150
5069-L3100ERS2	10 MB	5 MB	31	-	-	180
5069-L3100ERMS2	10 MB	5 MB	31	32	-	180





\*Safety Controllers adhere to functional safety standards IEC 61508, ISO 13849, and IEC 62061. See [Technical Data, 5069-TD002](#) for additional information.

## Compact GuardLogix 5380 SIL 3 Controller



Catalog number*	Memory size		I/O expansion	Motion axes	Conformal coated	EtherNet/IP™ nodes
	Standard	Safety				
5069-L306ERMS3	0.6 MB	0.3 MB	8	2	-	16
5069-L310ERMS3	1 MB	0.5 MB	8	4	-	24
5069-L320ERMS3(K)	2 MB	1 MB	16	8	Yes	40
5069-L330ERMS3(K)	3 MB	1.5 MB	31	16	Yes	60
5069-L340ERMS3	4 MB	2 MB	31	20	-	90
5069-L350ERMS3(K)	5 MB	2.5 MB	31	24	Yes	120
5069-L380ERMS3	8 MB	4 MB	31	28	-	150
5069-L3100ERMS3	10 MB	5 MB	31	32	-	180

Visit [rok.auto/compactlogix5380](http://rok.auto/compactlogix5380)

Connect with us.    

[rockwellautomation.com](http://rockwellautomation.com)

expanding **human possibility**™

AMERICAS: Rockwell Automation, 1201 South Second Street, Milwaukee, WI 53204-2496 USA, Tel: (1) 414.382.2000, Fax: (1) 414.382.4444  
 EUROPE/MIDDLE EAST/AFRICA: Rockwell Automation NV, Pegasus Park, De Kleetlaan 12a, 1831 Diegem, Belgium, Tel: (32) 2 663 0600, Fax: (32) 2 663 0640  
 ASIA PACIFIC: Rockwell Automation, Level 14, Core F, Cyberport 3, 100 Cyberport Road, Hong Kong, Tel: (852) 2887 4788, Fax: (852) 2508 1846

Allen-Bradley, Compact 5000, CompactLogix, expanding human possibility, FactoryTalk, GuardLogix, Integrated Architecture, Kinetix, Rockwell Automation, Stratix, Studio 5000 and Studio 5000 Logix Designer are trademarks of Rockwell Automation, Inc. Trademarks not belonging to Rockwell Automation are property of their respective companies. EtherNet/IP is a trademark of ODVA, Inc.

Publication 5069-PP003F-EN-P - May 2020 | Supersedes Publication 5069-PP003E-EN-P - November 2019

Copyright © 2020 Rockwell Automation, Inc. All Rights Reserved.