

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.

For industries such as Chemical, Food & Beverage, Life Sciences, Metals & Mining, Oil & Gas and Plastics, the CompactLogix 5380 Process controller is built for you. The Process controller helps reduce engineering effort with automatic diagnostics functionality, which allows you to subscribe and receive diagnostics information through FactoryTalk® View Site Edition without additional programming. Plus, tight integration with the PlantPax® 5.0 system reduces the need to import Add-On Instructions.

All CompactLogix 5380 and Compact GuardLogix 5380 controllers use the same development environment, [Studio 5000 Logix Designer®](#) application. The application combines elements of design into one standard framework and manages safety so that you can optimize productivity and reduce time to commission.

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 and Process controllers

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

Process-focused

- Native Process instructions reduce the need to import Add-On Instructions
- Available in standard memory options of 2 MB and 4 MB
- Offers integrated motion support
- Simplifies lifecycle management with conformal coating options

Productive

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



CompactLogix™ 5380 Process controller

Compact GuardLogix 5380 safety controllers

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/PLe 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



Kinetix® 5700 servo drive



E-stop

Light curtain



Compact 5000™ standard and safety I/O

1 Gb

1 Gb

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 rok.auto/productcertifications

CompactLogix 5380 standard and Process controllers



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
5069-L320ERP	2 MB	16	8	Yes	40
5069-L340ERP	4 MB	31	20	Yes	90

*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

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