



# CompactLogix 5380, Compact GuardLogix 5380, and CompactLogix 5480 Controllers Specifications

Bulletin 5069

Topic	Page
Summary of Changes	<a href="#">2</a>
Catalog Numbers	<a href="#">2</a>
CompactLogix 5380 Controllers	<a href="#">3</a>
Compact GuardLogix 5380 Controllers	<a href="#">7</a>
Compact GuardLogix SIL 2 Controllers	<a href="#">8</a>
Compact GuardLogix SIL 3 Controllers	<a href="#">12</a>
CompactLogix 5480 Controllers	<a href="#">17</a>
Controller Use with Other Devices	<a href="#">22</a>
Accessories	<a href="#">26</a>
Additional Resources	<a href="#">29</a>

## Summary of Changes

This publication contains the following new or updated information. This list includes substantive updates only and is not intended to reflect all changes.

Topic	Page(s)
Updated the following CompactLogix™ 5380 Controller Certifications: Ex, IECEx, CCC	<a href="#">6</a>
Updated the following Compact GuardLogix® 5380 SIL 2 Controller Technical Specifications: UKEX/ATEX temperature code	<a href="#">9</a>
Updated the following Compact GuardLogix 5380 SIL 2 Controller Environmental Specifications: Temperature (operating), Radiated RF immunity, EFT/B immunity, Surge transient immunity	<a href="#">10</a>
Updated the following Compact GuardLogix 5380 SIL 2 Controller Certifications: UK and CE, Ex, IECEx, CCC, UKCA	<a href="#">10, 11</a>
Updated the following Compact GuardLogix 5380 SIL 3 Controller Technical Specifications: UKEX/ATEX temperature code	<a href="#">13</a>
Updated the following Compact GuardLogix 5380 SIL 3 Controller Environmental Specifications: Temperature (operating), Radiated RF immunity, EFT/B immunity, Surge transient immunity, Conducted RF immunity	<a href="#">14</a>
Updated the following Compact GuardLogix 5380 SIL 3 Controller Certifications: UK and CE, Ex, IECEx, TÜV, CCC, UKCA	<a href="#">15</a>

## Catalog Numbers

This publication is applicable to the following controllers.

CompactLogix 5380 Controller Catalog Numbers	5069-L306ER, 5069-L306ERM, 5069-L310ER, 5069-L310ERM, 5069-L310ER-NSE, 5069-L320ER, 5069-L320ERM, 5069-L320ERP, 5069-L330ER, 5069-L330ERM, 5069-L340ER, 5069-L340ERM, 5069-L340ERP, 5069-L350ERM, 5069-L380ERM, 5069-L3100ERM
CompactLogix 5380 Conformal Coated Catalog Numbers	5069-L310ERMK, 5069-L320ERMK, 5069-L330ERMK, 5069-L350ERMK
CompactLogix 5380 Process Controller Catalog Numbers	5069-L320ERP, 5069-L340ERP
Compact GuardLogix 5380 SIL 2 Controller Catalog Numbers	5069-L306ERS2, 5069-L306ERMS2, 5069-L310ERS2, 5069-L310ERMS2, 5069-L320ERS2, 5069-L320ERMS2, 5069-L330ERS2, 5069-L330ERMS2, 5069-L340ERS2, 5069-L340ERMS2, 5069-L350ERS2, 5069-L350ERMS2, 5069-L380ERS2, 5069-L380ERMS2, 5069-L3100ERS2, 5069-L3100ERMS2
Compact GuardLogix 5380 SIL 2 Conformal Coated Catalog Numbers	5069-L310ERS2K, 5069-L310ERMS2K, 5069-L320ERS2K, 5069-L320ERMS2K, 5069-L330ERS2K, 5069-L330ERMS2K, 5069-L350ERS2K, 5069-L350ERMS2K
Compact GuardLogix 5380 SIL 3 Controller Catalog Numbers	5069-L306ERMS3, 5069-L310ERMS3, 5069-L320ERMS3, 5069-L330ERMS3, 5069-L340ERMS3, 5069-L350ERMS3, 5069-L380ERMS3, 5069-L3100ERMS3
Compact GuardLogix 5380 SIL 3 Conformal Coated Catalog Numbers	5069-L310ERMS3K, 5069-L320ERMS3K, 5069-L330ERMS3K, 5069-L350ERMS3K
CompactLogix 5480 Controller Catalog Numbers	5069-L430ERMW, 5069-L450ERMW, 5069-4100ERMW, 5069-L4200ERMW

# CompactLogix 5380 Controllers

CompactLogix 5380 controllers are part of the Logix 5000<sup>®</sup> family of controllers. The controllers provide a scalable controller solution to address a wide variety of applications. The applications range from standalone systems to more complex systems with devices that are connected to the controller via an EtherNet/IP<sup>™</sup> network.

The controllers are mounted on a DIN rail. They can monitor and control local and remote I/O modules, and other devices connected to an EtherNet/IP network. The CompactLogix 5380 controllers support this functionality:

- Use of Compact 5000<sup>™</sup> I/O module as local I/O and remote I/O modules.
- Use Compact 5000 I/O modules, and other I/O modules, as remote I/O modules.
- Support for Integrated Motion over an EtherNet/IP network (not all controllers).
- Use of Dual-IP mode or Linear/DLR mode.
- Use of two Ethernet ports that let the controller connect to EtherNet/IP device-level and enterprise-level networks.
- Use of 1784-SD1, 1784-SD2, 1784-SDHC8, 1784-SDHC32, 9509-CMSDCD4 Secure Digital (SD) card for nonvolatile memory.
- USB programming port for temporary connection.
- CompactLogix 5380 Process controllers (5069-L320ERP, 5069-L340ERP) support PlantPax<sup>®</sup> 5.0, and are conformal coated to add a layer of protection when exposed to harsh, corrosive environments. For more information, see the PlantPax DCS Configuration and Implementation User Manual, publication [PROCES-UM100](#).

## Features - CompactLogix 5380 Controllers

Feature	5069-L306ER, 5069-L306ERM	5069-L310ER, 5069-L310ER-NSE, 5069-L310ERM, 5069-L310ERMK	5069-L320ER, 5069-L320ERM, 5069-L320ERMK, 5069-L320ERP	5069-L330ER, 5069-L330ERM, 5069-L330ERMK	5069-L340ER, 5069-L340ERM, 5069-L340ERP	5069-L350ERM, 5069-L350ERMK	5069-L380ERM	5069-L3100ERM
Controller tasks Continuous Periodic Event	32 tasks 1000 programs/task All event triggers							
Built-in communication ports	1 - USB port 2 - Ethernet ports <b>IMPORTANT:</b> Consider the following: When the controller operates in Dual-IP mode, each Ethernet port requires a unique IP address. When the controller operates in Linear/DLR mode, the controller uses only one IP address.							
USB port communication	USB 2.0, Type B Full speed (12 Mbps) Programming, configuration, firmware update, and online edits only							
Ethernet performance	10 Mbps, 100 Mbps, 1 Gbps Full-duplex only							
I/O Capacity (Class 0/1) <sup>(1)</sup>	<ul style="list-style-type: none"> <li>• 128,000 without CIP Security<sup>™</sup></li> <li>• 40,000 with integrity</li> <li>• 20,000 with integrity and confidentiality</li> </ul>							
Message Rate Capacity HMI/MSG (Class 3) <sup>(1)</sup>	<ul style="list-style-type: none"> <li>• 2000 without CIP Security</li> <li>• 1500 with integrity</li> <li>• 900 with integrity and confidentiality</li> </ul>							
EtherNet/IP modes supported	Dual-IP mode (Available with the Studio 5000 Logix Designer <sup>®</sup> application, version 29.00.00 or later) Linear/DLR mode							
EtherNet/IP network topologies supported	DLR Star Linear							
EtherNet/IP nodes supported, max <sup>(2)</sup>	16	24	40	60	90	120	150	180
Socket interfaces supported, max	32							

## Features - CompactLogix 5380 Controllers (Continued)

Feature	5069-L306ER, 5069-L306ERM	5069-L310ER, 5069-L310ER-NSE, 5069-L310ERM, 5069-L310ERMK	5069-L320ER, 5069-L320ERM, 5069-L320ERMK, 5069-L320ERP	5069-L330ER, 5069-L330ERM, 5069-L330ERMK	5069-L340ER, 5069-L340ERM, 5069-L340ERP	5069-L350ERM, 5069-L350ERMK	5069-L380ERM	5069-L3100ERM
Integrated motion <sup>(3)</sup>	5069-L306ERM	5069-L310ERM, 5069-L310ERMK	5069-L320ERM, 5069-L320ERMK, 5069-L320ERP	5069-L330ERM, 5069-L330ERMK	5069-L340ERM, 5069-L340ERP	5069-L350ERM, 5069-L350ERMK	5069-L380ERM	5069-L3100ERM
Number of axes supported, max <sup>(4)</sup>	256							
Number of Integrated Motion on EtherNet/IP™ drive axes (Position loop-configured) supported, max <sup>(5)</sup>	5069-L306ERM: 2	5069-L310ERM: 4	5069-L320ERM, 5069-L320ERMK, 5069-L320ERP: 8	5069-L330ERM, 5069-L330ERMK: 16	5069-L340ERM, 5069-L340ERP: 20	24	28	32
Programming languages	Ladder Diagram (LD) Structured Text (ST) Function Block Diagram (FBD) Sequential Function Chart (SFC)							

- (1) I/O numbers are maximums; they assume no HMI/MSG. HMI/MSG numbers are maximums, they assume no I/O. Maximums assume that the processor is the target, not the originator. Packet rates vary depending on packet size. For more details, see Troubleshoot EtherNet/IP Application Technique, publication ENET-AT003, and the EDS file for a specific catalog number.
- (2) The maximum number of nodes that are listed represents when the controller is used with the Logix Designer application, version 31 or later. Some controllers can be used with earlier Logix Designer application versions. The maximum number of nodes that a controller supports can be fewer in Logix Designer application, versions 30 or earlier.
- (3) Only CompactLogix 5380 controllers that have an M or P in their catalog number support Integrated Motion on EtherNet/IP networks.
- (4) Any combination of Integrated Motion on EtherNet/IP drive, Virtual, Consumed, Regenerative AC/DC Converter and Non-Regenerative AC/DC Converter axis types.
- (5) The maximum number of Integrated Motion on EtherNet/IP drive axes (configured for Position Loop) that can be included in the total integrated motion axes count for a controller.

## Technical Specifications - CompactLogix 5380 Controllers

Attribute	5069-L306ER, 5069-L306ERM	5069-L310ER, 5069-L310ER-NSE, 5069-L310ERM, 5069-L310ERMK	5069-L320ER, 5069-L320ERM, 5069-L320ERMK, 5069-L320ERP	5069-L330ER, 5069-L330ERM, 5069-L330ERMK	5069-L340ER, 5069-L340ERM, 5069-L340ERP	5069-L350ERM, 5069-L350ERMK	5069-L380ERM	5069-L3100ERM
User memory	0.6 MB	1 MB	2 MB	3 MB	4 MB	5 MB	8 MB	10 MB
Optional nonvolatile memory	<ul style="list-style-type: none"> <li>1784-SD1 (1 GB)</li> <li>1784-SD2 (2 GB), ships with controller</li> <li>1784-SDHC8 (8 GB)</li> <li>1784-SDHC32 (32 GB)</li> <li>9509-CMSDCD4 (4 GB) CodeMeter CmCard SD</li> </ul>							
Local I/O modules, max	8	8	16	31 <sup>(1)</sup>	31	31	31	31
Number of power cycles	80,000							
MOD Power voltage range	18...32V DC							
MOD Power current, max	450 mA							
MOD Power inrush	850 mA for 125 ms							
MOD Power passthrough <sup>(2)</sup>	9.55 A @ 18...32V DC							
MOD Power current rating, max	10 A Do not exceed 10 A current draw at the MOD Power RTB.							
SA Power voltage ranges <sup>(3)</sup>	0...32V DC 0...240V AC, 47...63 Hz EX, 125V AC max							
SA Power current, max <sup>(3)</sup>	10 mA (DC power) 25 mA (AC power)							
SA Power passthrough <sup>(3),(4)</sup>	9.95 A @ 0...32V DC 9.975 A @ 0...240V AC, 47...63 Hz EX, 125V AC max							
SA Power current rating, max <sup>(3)</sup>	10 A (AC or DC power) Do not exceed 10 A current draw at the SA Power RTB.							
Power dissipation, max	8.5 W							
Thermal dissipation, max	29 BTU/hr							
Isolation voltage	300V (continuous), Basic Insulation Type, SA, and MOD Power to Backplane 300V (continuous), Basic Insulation Type, SA to MOD Power 300V (continuous), Basic Insulation Type, Ethernet to Backplane 300V (continuous), Double Insulation Type, Ethernet to MOD Power 300V (continuous), Double Insulation Type, Ethernet to SA Power 50V (continuous), Functional Insulation Type, Ethernet to USB 300V (continuous), Basic Insulation Type, USB to Backplane 300V (continuous), Double Insulation Type, USB to MOD Power 300V (continuous), Double Insulation Type, USB to SA Power No isolation between Ethernet ports Type tested at 1500V AC for 60 s							
Weight, approx	0.768 kg (1.693 lb)							
Dimensions (HxWxD), approx	143.97 x 98.10 x 136.81 mm (5.67 x 3.86 x 5.39 in.)							

## Technical Specifications - CompactLogix 5380 Controllers (Continued)

Attribute	5069-L306ER, 5069-L306ERM	5069-L310ER, 5069-L310ER-NSE, 5069-L310ERM, 5069-L310ERMK	5069-L320ER, 5069-L320ERM, 5069-L320ERMK, 5069-L320ERP	5069-L330ER, 5069-L330ERM, 5069-L330ERMK	5069-L340ER, 5069-L340ERM, 5069-L340ERP	5069-L350ERM, 5069-L350ERMK	5069-L380ERM	5069-L3100ERM
Location	DIN rail mount (horizontal mount only)							
DIN rail	Compatible zinc-plated, chromate steel DIN rail. EN50022 - 35 x 7.5 mm (1.38 x 0.30 in.)							
Removable terminal block	RTBs are available in separately ordered 5069 RTB kits. The MOD power connection uses a 4-point RTB, and the SA power connection uses a 6-point RTB. The following kits are available: <ul style="list-style-type: none"> <li>Kit catalog number 5069-RTB64-SCREW contains RTB catalog numbers 5069-RTB6-SCREW and 5069-RTB4-SCREW.</li> <li>Kit catalog number 5069-RTB64-SPRING contains RTB catalog numbers 5069-RTB6-SPRING and 5069-RTB4-SPRING.</li> </ul>							
Terminal block torque	5069-RTB4-SCREW & 5069-RTB6-SCREW: 0.4 N•m (3.5 lb•in) 5069-RTB4-SPRING & 5069-RTB6-SPRING: Torque does not apply							
Wire size	5069-RTB4-SCREW, 5069-RTB6-SCREW connections: 0.5...1.5 mm <sup>2</sup> (22...16 AWG) solid or stranded copper wire that is rated at 105 °C (221 °F), or greater, 3.5 mm (0.14 in.) max diameter including insulation, single wire connection only 5069-RTB4-SPRING, 5069-RTB6-SPRING connections: 0.5...1.5 mm <sup>2</sup> (22...16 AWG) solid or stranded copper wire that is rated at 105 °C (221 °F), or greater, 2.9 mm (0.11 in.) max diameter including insulation, single wire connection only Ethernet connections: Ethernet Cabling and Installation according to IEC 61918 and IEC 61784-5-2							
Insulation stripping length	5069-RTB4-SCREW, 5069-RTB6-SCREW connections: 12 mm (0.47 in.) 5069-RTB4-SPRING, 5069-RTB6-SPRING connections: 10 mm (0.39 in.)							
Wire category <sup>(5)</sup>	3 - on USB port 1 - on power ports 2 - on Ethernet ports							
Enclosure	None (open-style)							
North American temperature code	T4							
UKEX/ATEX temperature code	T4							
IECEx temperature code	T4							

- (1) When you use these controllers with the Studio 5000 Logix Designer application, version 29.00.00, the application limits the number of local I/O modules in the project to 16. For more information, see the Rockwell Automation Knowledgebase article [#942580](#), 5380 CompactLogix controllers limited to 16 local 5069 modules in V29 of Studio 5000<sup>®</sup>. The document is available at [rok.auto/knowledgebase](#).  
With the Logix Designer application, version 30.00.00 or later, the controllers support as many as 31 local I/O modules.
- (2) Maximum level of MOD Power current that the controller can pass through to the next module in the system. The specific level of current passed through varies based on system configuration.
- (3) SA power specifications are based on the number and type of Compact 5000 I/O modules that are used in the system. If the set of I/O modules that are used in the system require AC and DC voltage, you must install a 5069-FPD field potential distributor to separate the module types.
- (4) Maximum level of SA Power current that the controller can pass through to the next module in the system. The specific level of current passed through varies based on system configuration.
- (5) Use this Conductor Category information to plan conductor routing. See the Industrial Automation Wiring and Grounding Guidelines, publication [1770-4.1](#).

## Environmental Specifications - CompactLogix 5380 Controllers

Attribute	5069-L306ER, 5069-L306ERM, 5069-L310ER, 5069-L310ER-NSE, 5069-L310ERM, 5069-L310ERMK, 5069-L320ER, 5069-L320ERM, 5069-L320ERMK, 5069-L320ERP, 5069-L330ER, 5069-L330ERM, 5069-L330ERMK, 5069-L340ER, 5069-L340ERM, 5069-L340ERP, 5069-L350ERM, 5069-L350ERMK, 5069-L380ERM, 5069-L3100ERM
Temperature, operating IEC 60068-2-1 (Test Ad, Operating Cold), IEC 60068-2-2 (Test Bd, Operating Dry Heat), IEC 60068-2-14 (Test Nb, Operating Thermal Shock)	0 °C < Ta < +60 °C (+32 °F < Ta < +140 °F)
Temperature, nonoperating IEC 60068-2-1 (Test Ab, Unpackaged Nonoperating Cold), IEC 60068-2-2 (Test Bb, Unpackaged Nonoperating Dry Heat), IEC 60068-2-14 (Test Na, Unpackaged Nonoperating Thermal Shock)	-40...+85 °C (-40...+185 °F)
Temperature, surrounding air, max	60 °C (140 °F)
Relative humidity IEC 60068-2-30 (Test Db, Unpackaged Damp Heat)	5...95% noncondensing
Vibration IEC 60068-2-6 (Test Fc, Operating)	5 g @ 10...500 Hz
Shock, operating IEC 60068-2-27 (Test Ea, Unpackaged Shock)	30 g
Shock, nonoperating IEC 60068-2-27 (Test Ea, Unpackaged Shock)	50 g
Emissions	IEC 61000-6-4
ESD immunity IEC 61000-4-2	6 kV contact discharges 8 kV air discharges
Radiated RF immunity IEC 61000-4-3	10V/m with 1 kHz sine-wave 80% AM from 80...6000 MHz
EFT/B immunity IEC 61000-4-4	± 4 kV at 5 kHz on power ports ± 2 kV at 5 kHz on Ethernet ports

## Environmental Specifications - CompactLogix 5380 Controllers (Continued)

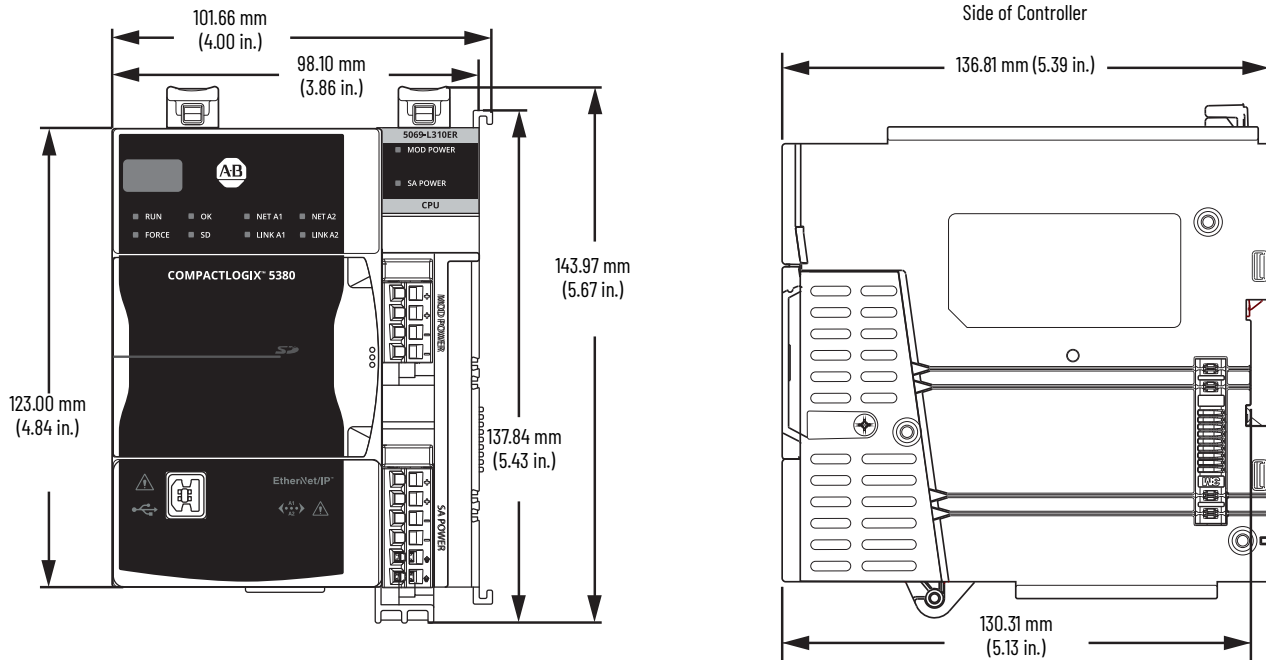
Attribute	5069-L306ER, 5069-L306ERM, 5069-L310ER, 5069-L310ER-NSE, 5069-L310ERM, 5069-L310ERMK, 5069-L320ER, 5069-L320ERM, 5069-L320ERMK, 5069-L320ERP, 5069-L330ER, 5069-L330ERM, 5069-L330ERMK, 5069-L340ER, 5069-L340ERM, 5069-L340ERMK, 5069-L350ERM, 5069-L350ERMK, 5069-L380ERM, 5069-L3100ERM
Surge transient immunity IEC 61000-4-5	± 1 kV line-line (DM) and ± 2 kV line-earth (CM) on power ports ± 2 kV line-earth (CM) on Ethernet ports
Conducted RF immunity IEC 61000-4-6	10V rms with 1 kHz sine-wave 80% AM from 150 kHz...80 MHz
Voltage variation IEC 61000-4-29	10 ms interruption on MOD Power port

## Certifications - CompactLogix 5380 Controllers

Certification <sup>(1)</sup>	5069-L306ER, 5069-L306ERM, 5069-L310ER, 5069-L310ER-NSE, 5069-L310ERM, 5069-L310ERMK, 5069-L320ER, 5069-L320ERM, 5069-L320ERMK, 5069-L320ERP, 5069-L330ER, 5069-L330ERM, 5069-L330ERMK, 5069-L340ER, 5069-L340ERM, 5069-L340ERMK, 5069-L350ERM, 5069-L350ERMK, 5069-L380ERM, 5069-L3100ERM
c-UL-us	UL Listed Industrial Control Equipment, certified for US and Canada. See UL File E65584. UL Listed for Class I, Division 2 Group A,B,C,D Hazardous Locations, certified for U.S. and Canada. See UL File E194810.
UK and CE	UK Statutory Instrument 2016 No. 1091 and European Union 2014/30/EU EMC Directive, compliant with: <ul style="list-style-type: none"> <li>EN 61326-1; Meas./Control/Lab., Industrial Requirements</li> <li>EN 61000-6-2; Industrial Immunity</li> <li>EN 61131-2; Programmable Controllers</li> <li>EN 61000-6-4; Industrial Emissions</li> <li>EN 61131-2; Programmable Controllers (Clause 8, Zone A &amp; B)</li> </ul> UK Statutory Instrument 2016 No. 1101 and European Union 2014/35/EU LVD, compliant with: <ul style="list-style-type: none"> <li>EN 61010-2-201; Control Equipment Safety Requirements</li> </ul> UK Statutory Instrument 2012 No. 3032 and European Union 2011/65/EU RoHS, compliant with: <ul style="list-style-type: none"> <li>EN IEC 63000; Technical documentation</li> </ul>
RCM	Australian Radiocommunications Act, compliant with: <ul style="list-style-type: none"> <li>EN 61000-6-4; Industrial Emissions</li> </ul>
Ex	European Union 2014/34/EU ATEX Directive, compliant with: <ul style="list-style-type: none"> <li>EN IEC 60079-0; General Requirements</li> <li>EN IEC 60079-15; Potentially Explosive Atmospheres, Protection "n"</li> <li>II 3 G Ex nA IIC T4 Gc</li> <li>DEMKO15ATEX1455X (until Revision 10)</li> </ul> Or UK Statutory Instrument 2016 No. 1107 and European Union 2014/34/EU ATEX Directive, compliant with: <ul style="list-style-type: none"> <li>EN IEC 60079-0; General Requirements</li> <li>EN IEC 60079-7; Explosive Atmospheres, Protection "e"</li> <li>II 3 G Ex ec IIC T4 Gc</li> <li>DEMKO 15 ATEX 1455X and UL22UKEX2307X (from Revision 11)</li> </ul>
IECEx	IECEx System, compliant with: <ul style="list-style-type: none"> <li>IEC 60079-0: General Requirements</li> <li>IEC 60079-15; Potentially Explosive Atmospheres, Protection "n"</li> <li>II 3 G Ex nA IIC T4 Gc</li> <li>IECEx UL 15.0007X (until issue 10)</li> </ul> Or <ul style="list-style-type: none"> <li>IEC 60079-0: General Requirements</li> <li>IEC 60079-7; Explosive Atmospheres, Protection "e"</li> <li>II 3 G Ex ec IIC T4 Gc</li> <li>IECEx UL 15.0007X (from issue 11)</li> </ul> when used at or below 125V AC
KC	Korean Registration of Broadcasting and Communications Equipment, compliant with: <ul style="list-style-type: none"> <li>Article 58-2 of Radio Waves Act, Clause 3</li> </ul> <b>IMPORTANT:</b> This certification does not apply to the following catalog numbers: 5069-L320ERMK, 5069-L330ERMK, 5069-L350ERMK
EAC	Russian Customs Union TR CU 020/2011 EMC Technical Regulation Russian Customs Union TR CU 004/2011 LV Technical Regulation
Morocco	Arrêté ministériel n° 6404-15 du 1 er muharram 1437 Arrêté ministériel n° 6404-15 du 29 ramadan 1436
CCC	CNCA-C23-01:2019 强制性产品认证实施规则 防爆电气 CNCA-C23-01:2019 CCC Implementation Rule Explosion-Proof Electrical Products CCC: 202012230911301 and 2021122309113957
UKCA	2016 No. 1091 - Electromagnetic Compatibility Regulations 2016 No. 1101 - Electrical Equipment (Safety) Regulations 2016 No. 1107 - Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2012 No. 3032 - Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations
EtherNet/IP	ODVA conformance tested to EtherNet/IP specifications
CIP Security	ODVA conformance tested to CIP Security specifications

(1) See the Product Certification link at [rok.auto/certifications](http://rok.auto/certifications) for Declarations of Conformity, Certificates, and other certification details.

## Dimensions - CompactLogix 5380 Controllers



See [CompactLogix 5380 or Compact GuardLogix 5380 System Minimum Space Requirements on page 16](#) for space requirements.

## Compact GuardLogix 5380 Controllers

Compact GuardLogix 5380 controllers are part of the Logix 5000 family of controllers. The controllers provide a scalable controller solution to address a wide variety of applications. The applications range from standalone systems to more complex systems with devices that are connected to the controller via an EtherNet/IP network.

The controllers can function in the same way as CompactLogix 5380 controllers and also provide the functionality to perform safety functions. A major benefit of this system is that it is still one project, safety and standard together.

The [Compact GuardLogix SIL 2 Controllers](#) can achieve up to SIL 2/PLd (Category 3) with the use of the safety task and safety I/O.

The [Compact GuardLogix SIL 3 Controllers](#), based on a 1oo2 design, and can achieve up to SIL 3/PLe (Category 4) with the use of the safety task and safety I/O.

During development, safety and standard have the same rules; multiple programmers, online editing, and forcing are all allowed. Once the safety system is validated and the safety signature is applied, safety memory is protected, the safety logic cannot be modified, and all safety functions operate with a safety integrity of up to SIL 2 for Compact GuardLogix SIL 2 controllers, and up to SIL 3 for Compact GuardLogix SIL 3 controllers.

The controllers are mounted on a DIN rail. They can monitor and control local and remote I/O modules, and other devices connected to an EtherNet/IP network. The controllers support this functionality:

- Use of Compact 5000 I/O standard and safety modules as local I/O and remote I/O modules.
- Use Compact 5000 I/O modules, and other I/O modules, as remote I/O modules.
- Support for Integrated Motion over an EtherNet/IP network (not all controllers).
- Use of Dual-IP mode or Linear/DLR mode.
- Use of two Ethernet ports that let the controller connect to EtherNet/IP device-level and enterprise-level networks.
- Use of 1784-SD1, 1784-SD2, 1784-SDHC8, 1784-SDHC32, 9509-CMSDCD4 Secure Digital (SD) card for nonvolatile memory.
- USB programming port for temporary connection.

Compact GuardLogix 5380 controllers are available with a conformal coating. The conformal coating provides a layer of protection against contaminants and humidity to help protect the assembly and extend product life in harsh, corrosive environments. Products with a conformal coating have a 'K' suffix at the end of the catalog number.

# Compact GuardLogix SIL 2 Controllers

## Features - Compact GuardLogix 5380 SIL 2 Controllers

Feature	5069-L306ERS2 5069-L306ERS2K	5069-L310ERS2 5069-L310ERS2K 5069-L310ERS2K	5069-L320ERS2 5069-L320ERS2K 5069-L320ERS2K	5069-L330ERS2 5069-L330ERS2K 5069-L330ERS2K	5069-L340ERS2 5069-L340ERS2K	5069-L350ERS2 5069-L350ERS2K 5069-L350ERS2K	5069-L380ERS2 5069-L380ERS2K	5069-L3100ERS2 5069-L3100ERS2K
Controller tasks • Continuous • Periodic • Event	31 standard tasks, 1 safety task 1000 programs/task All event triggers							
Built-in communication ports	1 USB port 2 Ethernet ports <b>IMPORTANT:</b> Consider the following: - When the controller operates in Dual-IP mode, each Ethernet port requires a unique IP address. - When the controller operates in Linear/DLR mode, the controller uses only one IP address.							
USB port communication	USB 2.0, Type B Full speed (12 Mbps) Programming, configuration, firmware update, and online edits only							
Ethernet performance	10 Mbps, 100 Mbps, 1 Gbps Full-duplex only							
I/O Capacity (Class 0/1) <sup>(1)</sup>	<ul style="list-style-type: none"> <li>128,000 without CIP Security</li> <li>40,000 with integrity</li> <li>20,000 with integrity and confidentiality</li> </ul>							
Message Rate Capacity HMI/MSG (Class 3) <sup>(1)</sup>	<ul style="list-style-type: none"> <li>2000 without CIP Security</li> <li>1500 with integrity</li> <li>900 with integrity and confidentiality</li> </ul>							
EtherNet/IP modes supported	Dual-IP mode Linear/DLR mode							
EtherNet/IP network topologies supported	DLR Star Linear							
EtherNet/IP nodes supported, max	16	24	40	60	90	120	150	180
Socket interfaces supported, max	32							
Integrated motion <sup>(2)</sup>	5069-L306ERS2	5069-L310ERS2, 5069-L310ERS2K	5069-L320ERS2	5069-L330ERS2, 5069-L330ERS2K	5069-L340ERS2	5069-L350ERS2, 5069-L350ERS2K	5069-L380ERS2	5069-L3100ERS2
Number of axes supported, max <sup>(3)</sup>	256							
Number of Integrated Motion on EtherNet/IP drive axes (Position loop-configured) supported, max <sup>(4)</sup>	5069-L306ERS2: 2	5069-L310ERS2, 5069-L310ERS2K: 4	5069-L320ERS2: 8	5069-L330ERS2, 5069-L330ERS2K: 16	5069-L340ERS2: 20	5069-L350ERS2, 5069-L350ERS2K: 24	5069-L380ERS2: 28	5069-L3100ERS2: 32
Programming languages	Ladder Diagram (LD) Structured Text (ST) Function Block Diagram (FBD) Sequential Function Chart (SFC) Safety Task supports only RLL and the additional safety application instructions							

(1) I/O numbers are maximums; they assume no HMI/MSG. HMI/MSG numbers are maximums, they assume no I/O. Maximums assume that the processor is the target, not the originator. Packet rates vary depending on packet size. For more details, see Troubleshoot EtherNet/IP Application Technique, publication ENET-AT003, and the EDS file for a specific catalog number.

(2) Only controllers that have an M in their catalog number support Integrated Motion on EtherNet/IP networks.

(3) Any combination of Integrated Motion on EtherNet/IP drive, Virtual, Consumed, Regenerative AC/DC Converter and Non-Regenerative AC/DC Converter axis types.

(4) The maximum number of Integrated Motion on EtherNet/IP drive axes (configured for Position Loop) that can be included in the total integrated motion axes count for a controller.

## Technical Specifications - Compact GuardLogix 5380 SIL 2 Controllers

Attribute	5069-L306ERS2 5069-L306ERS2K	5069-L310ERS2 5069-L310ERS2K 5069-L310ERS2K	5069-L320ERS2 5069-L320ERS2K 5069-L320ERS2K	5069-L330ERS2 5069-L330ERS2K 5069-L330ERS2K	5069-L340ERS2 5069-L340ERS2K	5069-L350ERS2 5069-L350ERS2K 5069-L350ERS2K	5069-L380ERS2 5069-L380ERS2K	5069-L3100ERS2 5069-L3100ERS2K
User memory	0.6 MB	1 MB	2 MB	3 MB	4 MB	5 MB	8 MB	10 MB
Safety memory	0.3 MB	0.5 MB	1 MB	1.5 MB	2 MB	2.5 MB	4 MB	5 MB
Optional nonvolatile memory	<ul style="list-style-type: none"> <li>1784-SD1 (1 GB)</li> <li>1784-SD2 (2 GB), ships with controller</li> <li>1784-SDHC8 (8 GB)</li> <li>1784-SDHC32 (32 GB)</li> <li>9509-CMSDCD4 (4 GB) CodeMeter CmCard SD</li> </ul>							
Local I/O modules, max	8	8	16	31	31	31	31	31



## Technical Specifications - Compact GuardLogix 5380 SIL 2 Controllers (Continued)

Attribute	5069-L306ERS2, 5069-L306ERMS2, 5069-L310ERS2, 5069-L310ERS2K, 5069-L310ERMS2, 5069-L310ERMS2K, 5069-L320ERS2, 5069-L320ERMS2, 5069-L330ERS2, 5069-L330ERMS2, 5069-L340ERS2, 5069-L340ERMS2, 5069-L350ERS2, 5069-L350ERMS2, 5069-L380ERS2, 5069-L380ERMS2, 5069-L3100ERS2, 5069-L3100ERMS2, 5069-L320ERS2K, 5069-L320ERMS2K, 5069-L330ERS2K, 5069-L330ERMS2K, 5069-L350ERS2K, 5069-L350ERMS2K	
Number of power cycles	80,000	
MOD Power voltage range	18...32V DC SELV/PELV <sup>(1)</sup>	
MOD Power current, max	475 mA	
MOD Power inrush	1200 mA for 125 ms	
MOD Power passthrough voltage range <sup>(2)</sup>	18...32V DC @ 4.525 A	
MOD Power current rating, max	5 A Do not exceed 5 A current draw at the MOD Power RTB.	
SA Power voltage ranges <sup>(3)</sup>	0...32V DC SELV/PELV <sup>(1)</sup>	
SA Power current, max <sup>(3)</sup>	10 mA (DC power)	
SA Power passthrough voltage ranges <sup>(3), (4)</sup>	0...32V DC @ 9.99 A	
SA Power current rating, max <sup>(3)</sup>	10 A (DC power) Do not exceed 10 A current draw at the SA Power RTB.	
Power dissipation, max	9.0 W	
Thermal dissipation, max	30.9 BTU/hr	
Isolation voltage	300V (continuous), Basic Insulation Type, SA and MOD Power to Backplane 300V (continuous), Basic Insulation Type, SA to MOD Power 300V (continuous), Basic Insulation Type, Ethernet to Backplane 300V (continuous), Double Insulation Type, Ethernet to MOD Power 300V (continuous), Double Insulation Type, Ethernet to SA Power 50V (continuous), Functional Insulation Type, Ethernet to USB	300V (continuous), Basic Insulation Type, USB to Backplane 300V (continuous), Double Insulation Type, USB to MOD Power 300V (continuous), Double Insulation Type, USB to SA Power No isolation between Ethernet ports Type tested at 1500V AC for 60 seconds
Weight, approx	0.768 kg (1.693 lb)	
Dimensions (HxWxD), approx	143.97 x 98.10 x 136.81 mm (5.67 x 3.86 x 5.39 in.)	
Location	DIN rail mount (horizontal mount only)	
DIN rail	Compatible zinc-plated, chromate steel DIN rail. EN50022 - 35 x 7.5 mm (1.38 x 0.30 in.)	
Removable terminal block	RTBs are available in separately ordered 5069 RTB kits. The MOD power connection uses a 4-point RTB, and the SA power connection uses a 6-point RTB. The following kits are available: • Kit catalog number 5069-RTB64-SCREW contains RTB catalog numbers 5069-RTB6-SCREW and 5069-RTB4-SCREW • Kit catalog number 5069-RTB64-SPRING contains RTB catalog numbers 5069-RTB6-SPRING and 5069-RTB4-SPRING	
Terminal block torque	5069-RTB4-SCREW & 5069-RTB6-SCREW: 0.4 N•m (3.5 lb•in) 5069-RTB4-SPRING & 5069-RTB6-SPRING: Torque does not apply	
Wire size	5069-RTB4-SCREW, 5069-RTB6-SCREW connections: 0.5...1.5 mm <sup>2</sup> (22...16 AWG) solid or stranded copper wire rated at 105 °C (221 °F), or greater, 3.5 mm (0.14 in.) max diameter including insulation, single wire connection only 5069-RTB4-SPRING, 5069-RTB6-SPRING connections: 0.5...1.5 mm <sup>2</sup> (22...16 AWG) solid or stranded copper wire rated at 105 °C (221 °F), or greater, 2.9 mm (0.11 in.) max diameter including insulation, single wire connection only Ethernet connections: Ethernet Cabling and Installation according to IEC 61918 and IEC 61784-5-2	
Insulation stripping length	5069-RTB4-SCREW, 5069-RTB6-SCREW connections: 12 mm (0.47 in.) 5069-RTB4-SPRING, 5069-RTB6-SPRING connections: 10 mm (0.39 in.)	
Wire category <sup>(5)</sup>	3 - on USB port 1 - on power ports 2 - on Ethernet ports	
Enclosure	None (open-style)	
North American temperature code	T4	
UKEX/ATEX temperature code	T4	
IECEx temperature code	T4	

(1) For Functional Safety applications, SELV/PELV power supplies are required for both MOD power and SA power.

(2) Maximum level of MOD Power current that the controller can pass through to the next module in the system. The specific level of current passed through varies based on system configuration.

(3) SA power specifications are based on the number and type of Compact 5000 I/O modules that are used in the system. For example, if the set of I/O modules that are used in a Compact GuardLogix 5380 controller system includes modules that use AC SA power, you must include a 5069-FPD field potential distributor in the system. In a Compact GuardLogix 5380 controller system, modules that use AC SA power must be installed to the right of a 5069-FPD field potential distributor.

(4) Maximum level of SA Power current that the controller can pass through to the next module in the system. The specific level of current passed through varies based on system configuration.

(5) Use this Conductor Category information to plan conductor routing. See the Industrial Automation Wiring and Grounding Guidelines, publication [1770-4.1](#).

## Environmental Specifications - Compact GuardLogix 5380 SIL 2 Controllers

Attribute	5069-L306ERS2, 5069-L306ERMS2, 5069-L310ERS2, 5069-L310ERS2K, 5069-L310ERMS2, 5069-L310ERMS2K, 5069-L320ERS2, 5069-L320ERMS2, 5069-L330ERS2, 5069-L330ERMS2, 5069-L340ERS2, 5069-L340ERMS2, 5069-L350ERS2, 5069-L350ERMS2, 5069-L380ERS2, 5069-L380ERMS2, 5069-L3100ERS2, 5069-L3100ERMS2, 5069-L320ERS2K, 5069-L320ERMS2K, 5069-L330ERS2K, 5069-L330ERMS2K, 5069-L350ERS2K, 5069-L350ERMS2K
Temperature, operating IEC 60068-2-1 (Test Ad, Operating Cold), IEC 60068-2-2 (Test Bd, Operating Dry Heat), IEC 60068-2-14 (Test Nb, Operating Thermal Shock)	0 °C ≤ Ta ≤ +60 °C (+32 °F ≤ Ta ≤ +140 °F) For specific controller details, see <a href="#">CompactLogix 5380 or Compact GuardLogix 5380 System Minimum Space Requirements on page 16</a> .
Temperature, nonoperating IEC 60068-2-1 (Test Ab, Unpackaged Nonoperating Cold), IEC 60068-2-2 (Test Bb, Unpackaged Nonoperating Dry Heat), IEC 60068-2-14 (Test Na, Unpackaged Nonoperating Thermal Shock)	-40...+85 °C (-40...+185 °F)
Temperature, surrounding air, max	60 °C (140 °F)
Relative humidity IEC 60068-2-30 (Test Db, Unpackaged Damp Heat)	5...95% noncondensing
Vibration IEC 60068-2-6 (Test Fc, Operating)	5 g @ 10...500 Hz
Shock, operating IEC 60068-2-27 (Test Ea, Unpackaged Shock)	30 g
Shock, nonoperating IEC 60068-2-27 (Test Ea, Unpackaged Shock)	50 g
Emissions	IEC 61000-6-4
ESD immunity IEC 61000-4-2	6 kV contact discharges 8 kV air discharges
Radiated RF immunity IEC 61000-4-3	10V/m with 1 kHz sine-wave 80% AM from 80...2000 MHz 10V/m with 1 kHz sine-wave 80% AM from 2000...2700 MHz 10V/m with 1 kHz sine-wave 80% AM from 2700...6000 MHz
EFT/B immunity IEC 61000-4-4	± 4 kV at 5 kHz on power ports ± 2 kV at 5 kHz on communication ports
Surge transient immunity IEC 61000-4-5	± 1 kV line-line (DM) and ± 2 kV line-earth (CM) on power ports ± 2 kV line-earth (CM) on communication ports
Conducted RF immunity IEC 61000-4-6	10V rms with 1 kHz sine-wave 80% AM from 150 kHz...80 MHz
Voltage variation IEC 61000-4-29	10 ms interruption on MOD Power port

## Certifications - Compact GuardLogix 5380 SIL 2 Controllers

Certification <sup>(1)</sup>	5069-L306ERS2, 5069-L306ERMS2, 5069-L310ERS2, 5069-L310ERS2K, 5069-L310ERMS2, 5069-L310ERMS2K, 5069-L320ERS2, 5069-L320ERMS2, 5069-L330ERS2, 5069-L330ERMS2, 5069-L340ERS2, 5069-L340ERMS2, 5069-L350ERS2, 5069-L350ERMS2, 5069-L380ERS2, 5069-L380ERMS2, 5069-L3100ERS2, 5069-L3100ERMS2, 5069-L320ERS2K, 5069-L320ERMS2K, 5069-L330ERS2K, 5069-L330ERMS2K, 5069-L350ERS2K, 5069-L350ERMS2K
c-UL-us	UL Listed Industrial Control Equipment, certified for US and Canada. See UL File E65584. UL Listed for Class I, Division 2 Group A,B,C,D Hazardous Locations, certified for U.S. and Canada. See UL File E194810.
UK and CE	UK Statutory Instrument 2016 No. 1091 and European Union 2014/30/EU EMC Directive, compliant with: <ul style="list-style-type: none"> <li>EN 61326-1; Meas./Control/Lab., Industrial Requirements</li> <li>EN 61000-6-2; Industrial Immunity</li> <li>EN 61000-6-4; Industrial Emissions</li> <li>EN 61131-2; Programmable Controllers (Clause 8, Zone A &amp; B)</li> </ul> UK Statutory Instrument 2008 No. 1597 and European Union 2006/42/EC MD, compliant with: <ul style="list-style-type: none"> <li>EN 60204-1; Electrical equipment of machines</li> <li>EN ISO 13849-1; Safety-related parts of control systems</li> <li>EN 62061; Functional safety of safety-related control systems</li> <li>Cat. 3/PL d according to EN ISO 13849-1, and SIL 2 according to EN 62061/IEC 61508</li> <li>TÜV 01/205U/5632 and TÜV 01/205/5632</li> </ul> UK Statutory Instrument 2012 No. 3032 and European Union 2011/65/EU RoHS, compliant with: <ul style="list-style-type: none"> <li>EN IEC 63000; Technical documentation</li> </ul>
RCM	Australian Radiocommunications Act, compliant with: <ul style="list-style-type: none"> <li>EN 61000-6-4; Industrial Emissions</li> </ul>
Ex	European Union 2014/34/EU ATEX Directive, compliant with: <ul style="list-style-type: none"> <li>EN 60079-0; General Requirements</li> <li>EN 60079-15; Potentially Explosive Atmospheres, Protection "n"</li> <li>II 3 G Ex nA IIC T4 Gc</li> <li>DEMKO 17 ATEX 1976X (until Revision 2)</li> </ul> Or UK Statutory Instrument 2016 No. 1107 and European Union 2014/34/EU ATEX Directive, compliant with: <ul style="list-style-type: none"> <li>EN IEC 60079-0; General Requirements</li> <li>EN IEC 60079-7; Explosive Atmospheres, Protection "e"</li> <li>II 3 G Ex ec IIC T4 Gc</li> <li>DEMKO 17 ATEX 1976X and UL22UKEX2669X (from Revision 3)</li> </ul>

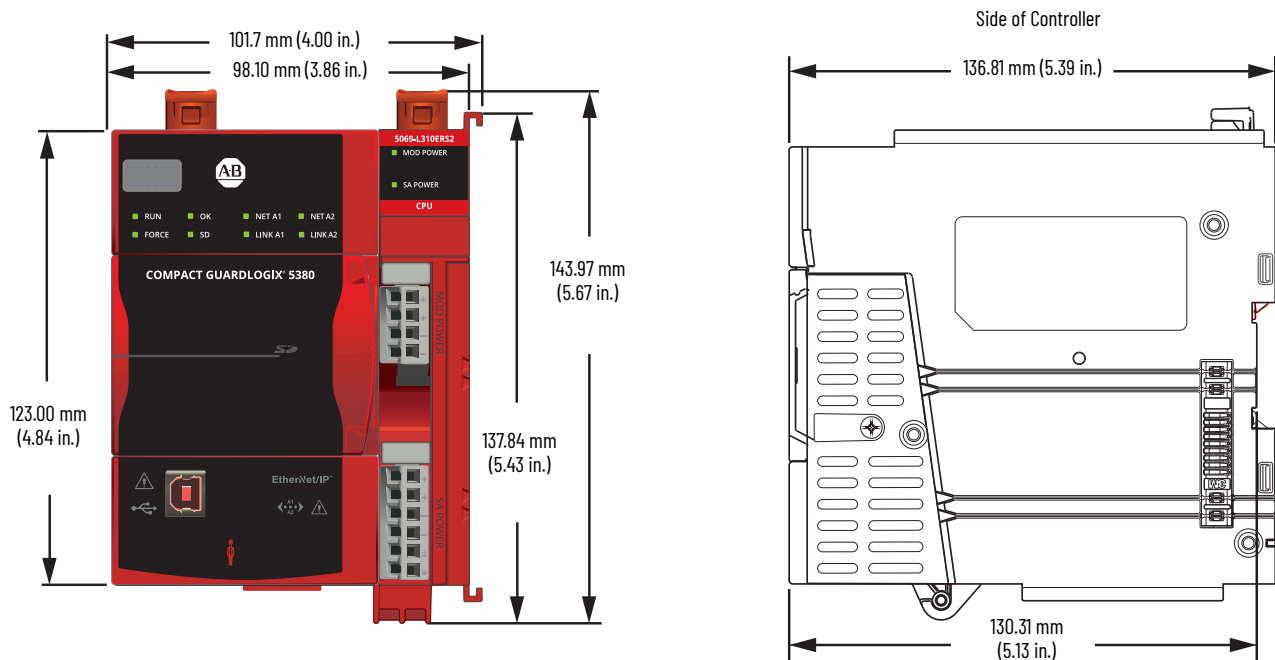
## Certifications - Compact GuardLogix 5380 SIL 2 Controllers

Certification <sup>(1)</sup>	5069-L306ERS2, 5069-L306ERMS2, 5069-L310ERS2, 5069-L310ERS2K, 5069-L310ERMS2, 5069-L310ERMS2K, 5069-L320ERS2, 5069-L320ERMS2, 5069-L330ERS2, 5069-L330ERMS2, 5069-L340ERS2, 5069-L340ERMS2, 5069-L350ERS2, 5069-L350ERMS2, 5069-L380ERS2, 5069-L380ERMS2, 5069-L3100ERS2, 5069-L3100ERMS2, 5069-L320ERS2K, 5069-L320ERMS2K, 5069-L330ERS2K, 5069-L330ERMS2K, 5069-L350ERS2K, 5069-L350ERMS2K
IECEX	IECEX System, compliant with: <ul style="list-style-type: none"> <li>IEC 60079-0: General Requirements</li> <li>IEC 60079-15: Potentially Explosive Atmospheres, Protection "n"</li> <li>II 3 G Ex nA IIC T4 Gc</li> <li>IECEX UL 17.0122X (until issue 4)</li> </ul> Or <ul style="list-style-type: none"> <li>IEC 60079-0: General Requirements</li> <li>IEC 60079-7: Explosive Atmospheres, Protection "e"</li> <li>II 3 G Ex ec IIC T4 Gc</li> <li>IECEX UL 17.0122X (from issue 5)</li> </ul>
TÜV	TÜV Certified for Functional Safety <sup>(2)</sup> . <ul style="list-style-type: none"> <li>Capable of SIL 2, CAT. 3/PL d</li> </ul>
KC	Korean Registration of Broadcasting and Communications Equipment, compliant with: <ul style="list-style-type: none"> <li>Article 58-2 of Radio Waves Act, Clause 3</li> </ul>
EAC	Russian Customs Union TR CU 020/2011 EMC Technical Regulation Russian Customs Union TR CU 004/2011 LV Technical Regulation
CCC	CNCA-C23-01:2019 强制性产品认证实施规则 防爆电气 CNCA-C23-01:2019 CCC Implementation Rule Explosion-Proof Electrical Products CCC: 202012230911301 and 2021122309113957
UKCA	2016 No. 1091 – Electromagnetic Compatibility Regulations 2016 No. 1107 – Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2008 No. 1597 – Supply of Machinery (Safety) Regulations 2012 No. 3032 – Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations
Morocco	Arrêté ministériel n° 6404-15 du 1 er muharram 1437 Arrêté ministériel n° 6404-15 du 29 ramadan 1436
EtherNet/IP	ODVA conformance tested to EtherNet/IP specifications
CIP Security	ODVA conformance tested to CIP Security specifications

(1) See the Product Certification link at [rok.auto/certifications](http://rok.auto/certifications) for Declarations of Conformity, Certificates, and other certification details.

(2) When used with specified firmware revisions.  
See the Product Safety Certificate at [rok.auto/certifications](http://rok.auto/certifications) for a full list of safety-related certifications.

## Dimensions - CompactLogix GuardLogix 5380 SIL 2 Controllers



See [CompactLogix 5380](#) or [Compact GuardLogix 5380 System Minimum Space Requirements](#) on page 16 for space requirements.

# Compact GuardLogix SIL 3 Controllers

## Features - Compact GuardLogix 5380 SIL 3 Controllers

Feature	5069-L306ERMS3	5069-L310ERMS3 5069-L310ERMS3K	5069-L320ERMS3 5069-L320ERMS3K	5069-L330ERMS3 5069-L330ERMS3K	5069-L340ERMS3	5069-L350ERMS3 5069-L350ERMS3K	5069-L380ERMS3	5069-L3100ERMS3
Controller tasks • Continuous • Periodic • Event	31 standard tasks, 1 safety task 1000 programs/task All event triggers							
Built-in communication ports	1 USB port 2 Ethernet ports <b>IMPORTANT:</b> Consider the following: - When the controller operates in Dual-IP mode, each Ethernet port requires a unique IP address. - When the controller operates in Linear/DLR mode, the controller uses only one IP address.							
USB port communication	USB 2.0, Type B Full speed (12 Mbps) Programming, configuration, firmware update, and online edits only							
Ethernet performance	10 Mbps, 100 Mbps, 1 Gbps Full-duplex only							
I/O Capacity (Class 0/1) - packets/second <sup>(1) (2)</sup>	<ul style="list-style-type: none"> <li>128,000 without CIP Security</li> <li>40,000 with integrity</li> <li>20,000 with integrity and confidentiality</li> </ul>							
Message Rate Capacity HMI/MSG (Class 3) - messages/second <sup>(1) (3)</sup>	<ul style="list-style-type: none"> <li>1000 without CIP Security</li> <li>750 with integrity</li> <li>450 with integrity and confidentiality</li> </ul>							
EtherNet/IP network topologies supported	DLR Star Linear							
EtherNet/IP nodes supported, max	16	24	40	60	90	120	150	180
Socket interfaces supported, max	32							
Integrated motion <sup>(3)</sup>								
Number of axes supported, max <sup>(4)</sup>	256							
Number of Integrated Motion on EtherNet/IP drive axes (Position loop-configured) supported, max <sup>(5)</sup>	2	4	8	16	20	24	28	32
Programming languages	Ladder Diagram (LD) Structured Text (ST) Function Block Diagram (FBD) Sequential Function Chart (SFC) Safety Task supports only RLL and the additional safety application instructions							

- (1) I/O numbers are maximums; they assume no HMI/MSG. HMI/MSG numbers are maximums, they assume no I/O. Maximums assume that the processor is the target, not the originator. Packet rates vary depending on packet size. For more details, see Troubleshoot EtherNet/IP Application Technique, publication [ENET-AT003](#), and the EDS file for a specific catalog number.
- (2) For information on integrity and confidentiality, see the CIP Security with Rockwell Automation Products Application Technique, publication [SECURE-AT001](#).
- (3) Only controllers that have an M in their catalog number support Integrated Motion on EtherNet/IP networks.
- (4) Any combination of Integrated Motion on EtherNet/IP drive, Virtual, Consumed, Regenerative AC/DC Converter and Non-Regenerative AC/DC Converter axis types.
- (5) The maximum number of Integrated Motion on EtherNet/IP drive axes (configured for Position Loop) that can be included in the total integrated motion axes count for a controller.

## Technical Specifications - Compact GuardLogix 5380 SIL 3 Controllers

Attribute	5069-L306ERMS3	5069-L310ERMS3 5069-L310ERMS3K	5069-L320ERMS3 5069-L320ERMS3K	5069-L330ERMS3 5069-L330ERMS3K	5069-L340ERMS3	5069-L350ERMS3 5069-L350ERMS3K	5069-L380ERMS3	5069-L3100ERMS3
User memory	0.6 MB	1 MB	2 MB	3 MB	4 MB	5 MB	8 MB	10 MB
Safety memory	0.3 MB	0.5 MB	1 MB	1.5 MB	2 MB	2.5 MB	4 MB	5 MB
Optional nonvolatile memory	<ul style="list-style-type: none"> <li>1784-SD1 (1 GB)</li> <li>1784-SD2 (2 GB), ships with controller</li> <li>1784-SDHC8 (8 GB)</li> <li>1784-SDHC32 (32 GB)</li> <li>9509-CMSDCD4 (4 GB) CodeMeter CmCard SD</li> </ul>							
Local I/O modules, max	8	8	16	31	31	31	31	31

## Technical Specifications - Compact GuardLogix 5380 SIL 3 Controllers (Continued)

Attribute	5069-L306ERMS3, 5069-L310ERMS3, 5069-L310ERMS3K, 5069-L320ERMS3, 5069-L320ERMS3K, 5069-L330ERMS3, 5069-L330ERMS3K, 5069-L340ERMS3, 5069-L350ERMS3, 5069-L350ERMS3K, 5069-L380ERMS3, 5069-L3100ERMS3	
Number of power cycles	80,000	
MOD Power voltage range	18...32V DC SELV/PELV <sup>(1)</sup>	
MOD Power current, max	950 mA	
MOD Power inrush	2.375 A	
MOD Power passthrough voltage range <sup>(2)</sup>	18...32V DC @ 4.05 A	
MOD Power current rating, max	5 A Do not exceed 5 A current draw at the MOD Power RTB.	
SA Power voltage ranges <sup>(3)</sup>	0...32V DC SELV/PELV <sup>(1)</sup>	
SA Power current, max <sup>(3)</sup>	10 mA (DC power)	
SA Power passthrough voltage ranges <sup>(3), (4)</sup>	0...32V DC @ 9.99 A	
SA Power current rating, max <sup>(3)</sup>	10 A (DC power) Do not exceed 10 A current draw at the SA Power RTB.	
Power dissipation, max	18.0 W	
Thermal dissipation, max	18.0 W	
Isolation voltage	300V (continuous), Basic Insulation Type, SA and MOD Power to Backplane 300V (continuous), Basic Insulation Type, SA to MOD Power 300V (continuous), Basic Insulation Type, Ethernet to Backplane 300V (continuous), Double Insulation Type, Ethernet to MOD Power 300V (continuous), Double Insulation Type, Ethernet to SA Power 50V (continuous), Functional Insulation Type, Ethernet to USB	300V (continuous), Basic Insulation Type, USB to Backplane 300V (continuous), Double Insulation Type, USB to MOD Power 300V (continuous), Double Insulation Type, USB to SA Power No isolation between Ethernet ports Type tested at 1500V AC for 60 seconds
Weight, approx	1.2 kg (2.645 lb)	
Dimensions (HxWxD), approx	143.71 x 153.5 x 136.81 mm (5.65 x 6.04 x 5.39 in.)	
Location	DIN rail mount (horizontal mount only)	
DIN rail	Compatible zinc-plated, chromate steel DIN rail. EN50022 - 35 x 7.5 mm (1.38 x 0.30 in.)	
Removable terminal block	RTBs are available in separately ordered 5069 RTB kits. The MOD power connection uses a 4-point RTB, and the SA power connection uses a 6-point RTB. The following kits are available: • Kit catalog number 5069-RTB64-SCREW contains RTB catalog numbers 5069-RTB6-SCREW and 5069-RTB4-SCREW • Kit catalog number 5069-RTB64-SPRING contains RTB catalog numbers 5069-RTB6-SPRING and 5069-RTB4-SPRING	
Terminal block torque	5069-RTB4-SCREW & 5069-RTB6-SCREW: 0.4 N•m (3.5 lb•in) 5069-RTB4-SPRING & 5069-RTB6-SPRING: Torque does not apply	
Wire size	5069-RTB4-SCREW, 5069-RTB6-SCREW connections: 0.5...1.5 mm <sup>2</sup> (22...16 AWG) solid or stranded copper wire rated at 105 °C (221 °F), or greater, 3.5 mm (0.14 in.) max diameter including insulation, single wire connection only 5069-RTB4-SPRING, 5069-RTB6-SPRING connections: 0.5...1.5 mm <sup>2</sup> (22...16 AWG) solid or stranded copper wire rated at 105 °C (221 °F), or greater, 2.9 mm (0.11 in.) max diameter including insulation, single wire connection only Ethernet connections: Ethernet Cabling and Installation according to IEC 61918 and IEC 61784-5-2	
Insulation stripping length	5069-RTB4-SCREW, 5069-RTB6-SCREW connections: 12 mm (0.47 in.) 5069-RTB4-SPRING, 5069-RTB6-SPRING connections: 10 mm (0.39 in.)	
Wire category <sup>(5)</sup>	3 - on USB port 1 - on power ports 2 - on Ethernet ports	
Enclosure	None (open-style)	
North American temperature code	T4	
UKEX/ATEX temperature code	T4	
IECEx temperature code	T4	

(1) For Functional Safety applications, SELV/PELV power supplies are required for both MOD power and SA power.

(2) Maximum level of MOD Power current that the controller can pass through to the next module in the system. The specific level of current passed through varies based on system configuration.

(3) SA power specifications are based on the number and type of Compact 5000 I/O modules that are used in the system. For example, if the set of I/O modules that are used in a Compact GuardLogix 5380 controller system includes modules that use AC SA power, you must include a 5069-FPD field potential distributor in the system. In a Compact GuardLogix 5380 controller system, modules that use AC SA power must be installed to the right of a 5069-FPD field potential distributor.

(4) Maximum level of SA Power current that the controller can pass through to the next module in the system. The specific level of current passed through varies based on system configuration.

(5) Use this Conductor Category information to plan conductor routing. See the Industrial Automation Wiring and Grounding Guidelines, publication [1770-4.1](#).

## Environmental Specifications - Compact GuardLogix 5380 SIL 3 Controllers

Attribute	5069-L306ERMS3, 5069-L310ERMS3, 5069-L310ERMS3K, 5069-L320ERMS3, 5069-L320ERMS3K, 5069-L330ERMS3, 5069-L330ERMS3K, 5069-L340ERMS3, 5069-L350ERMS3, 5069-L350ERMS3K, 5069-L380ERMS3, 5069-L3100ERMS3
Temperature, operating IEC 60068-2-1 (Test Ad, Operating Cold), IEC 60068-2-2 (Test Bd, Operating Dry Heat), IEC 60068-2-14 (Test Nb, Operating Thermal Shock)	0 °C ≤ Ta ≤ +60 °C (+32 °F ≤ Ta ≤ +140 °F) For specific controller details, see <a href="#">CompactLogix 5380 or Compact GuardLogix 5380 System Minimum Space Requirements on page 16</a> .
Temperature, nonoperating IEC 60068-2-1 (Test Ab, Unpackaged Nonoperating Cold), IEC 60068-2-2 (Test Bb, Unpackaged Nonoperating Dry Heat), IEC 60068-2-14 (Test Na, Unpackaged Nonoperating Thermal Shock)	-40...+85 °C (-40...+185 °F)
Temperature, surrounding air, max	60 °C (140 °F)
Relative humidity IEC 60068-2-30 (Test Db, Unpackaged Damp Heat)	5...95% noncondensing
Vibration IEC 60068-2-6 (Test Fc, Operating)	5 g @ 10...500 Hz
Shock, operating IEC 60068-2-27 (Test Ea, Unpackaged Shock)	30 g
Shock, nonoperating IEC 60068-2-27 (Test Ea, Unpackaged Shock)	50 g
Emissions	IEC 61000-6-4
ESD immunity IEC 61000-4-2	6 kV contact discharges 8 kV air discharges
Radiated RF immunity IEC 61000-4-3	20V/m with 1 kHz sine-wave 80% AM from 80...2000 MHz 10V/m with 1 kHz sine-wave 80% AM from 2000...2700 MHz 10V/m with 1 kHz sine-wave 80% AM from 2700...6000 MHz
EFT/B immunity IEC 61000-4-4	± 4 kV at 5 kHz on power ports ± 3 kV at 5 kHz on communication ports
Surge transient immunity IEC 61000-4-5	± 1 kV line-line (DM) and ± 2 kV line-earth (CM) on power ports ± 2 kV line-earth (CM) on communication ports
Conducted RF immunity IEC 61000-4-6	20V rms with 1 kHz sine-wave 80% AM from 150 kHz...80 MHz
Voltage variation IEC 61000-4-29	10 ms interruption on MOD Power port

## Certifications - Compact GuardLogix 5380 SIL 3 Controllers

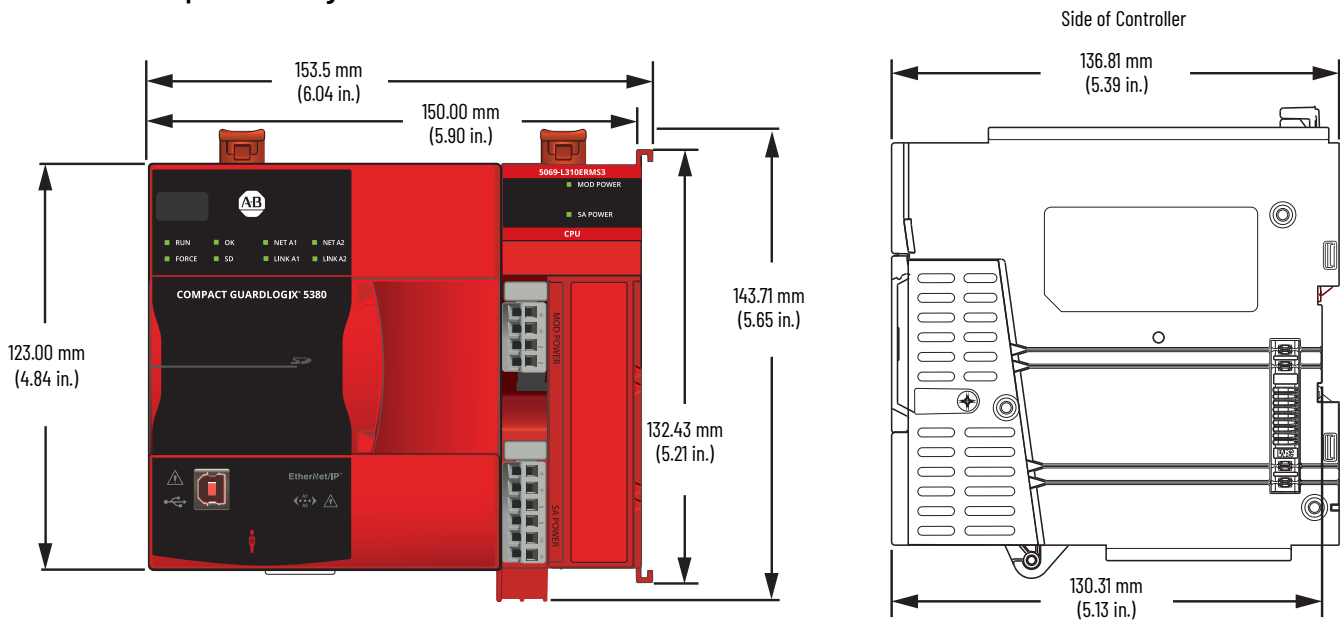
Certification <sup>(1)</sup>	5069-L306ERMS3, 5069-L310ERMS3, 5069-L310ERMS3K, 5069-L320ERMS3, 5069-L320ERMS3K, 5069-L330ERMS3, 5069-L330ERMS3K, 5069-L340ERMS3, 5069-L350ERMS3, 5069-L350ERMS3K, 5069-L380ERMS3, 5069-L3100ERMS3
c-UL-us	UL Listed Industrial Control Equipment, certified for US and Canada. See UL File E65584. UL Listed for Class I, Division 2 Group A,B,C,D Hazardous Locations, certified for U.S. and Canada. See UL File E194810.
UK and CE	UK Statutory Instrument 2016 No. 1091 and European Union 2014/30/EU EMC Directive, compliant with: <ul style="list-style-type: none"> <li>EN 61326-1; Meas./Control/Lab., Industrial Requirements</li> <li>EN 61000-6-2; Industrial Immunity</li> <li>EN 61000-6-4; Industrial Emissions</li> <li>EN 61131-2; Programmable Controllers (Clause 8, Zone A &amp; B)</li> </ul> UK Statutory Instrument 2008 No. 1597 and European Union 2006/42/EC MD, compliant with: <ul style="list-style-type: none"> <li>EN 60204-1; Electrical equipment of machines</li> <li>EN ISO 13849-1; Safety-related parts of control systems</li> <li>EN 62061; Functional safety of safety-related control systems</li> <li>Cat. 4/PL e according to EN ISO 13849-1 and SIL 3 according to EN 62061 / IEC 61508</li> <li>TÜV 01/205/5775 and 01/205U/5775</li> </ul> UK Statutory Instrument 2012 No. 3032 and European Union 2011/65/EU RoHS, compliant with: <ul style="list-style-type: none"> <li>EN IEC 63000; Technical documentation</li> </ul>
RCM	Australian Radiocommunications Act, compliant with: <ul style="list-style-type: none"> <li>EN 61000-6-4; Industrial Emissions</li> </ul>
Ex	UK Statutory Instrument 2016 No. 1107 and European Union 2014/34/EU ATEX Directive, compliant with: <ul style="list-style-type: none"> <li>EN 60079-0; General Requirements</li> <li>EN 60079-7; Explosive Atmospheres, Protection "e"</li> <li>II 3 G Ex ec IIC T4 Gc</li> <li>DEMKO 19 ATEX 2261X and UL22UKEX2536X</li> </ul>
IECEX	IECEX System, compliant with: <ul style="list-style-type: none"> <li>IEC 60079-0; General Requirements</li> <li>IEC 60079-7; Explosive Atmospheres, Protection "e"</li> <li>II 3 G Ex ec IIC T4 Gc</li> <li>IECEX UL 19.0081X</li> </ul>
TÜV	TÜV Certified for Functional Safety <sup>(2)</sup> : <ul style="list-style-type: none"> <li>Capable of SIL 3, CAT. 4/PL e</li> </ul>
KC	Korean Registration of Broadcasting and Communications Equipment, compliant with: <ul style="list-style-type: none"> <li>Article 58-2 of Radio Waves Act, Clause 3</li> </ul>
EAC	Russian Customs Union TR CU 020/2011 EMC Technical Regulation Russian Customs Union TR CU 004/2011 LV Technical Regulation
CCC	CNCA-C23-01:2019 强制性产品认证实施规则 防爆电气 CNCA-C23-01:2019 CCC Implementation Rule Explosion-Proof Electrical Products CCC: 202012230911301 and 2021122309113957
UKCA	2016 No. 1091 - Electromagnetic Compatibility Regulations 2016 No. 1107 - Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2008 No. 1597 - Supply of Machinery (Safety) Regulations 2012 No. 3032 - Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations
Morocco	Arrêté ministériel n° 6404-15 du 1 er muharram 1437 Arrêté ministériel n° 6404-15 du 29 ramadan 1436
EtherNet/IP	ODVA conformance tested to EtherNet/IP specifications
CIP Security	ODVA conformance tested to CIP Security specifications

(1) See the Product Certification link at [rok.auto/certifications](http://rok.auto/certifications) for Declarations of Conformity, Certificates, and other certification details.

(2) When used with specified firmware revisions.

See the Product Safety Certificate at [rok.auto/certifications](http://rok.auto/certifications) for a full list of safety-related certifications.

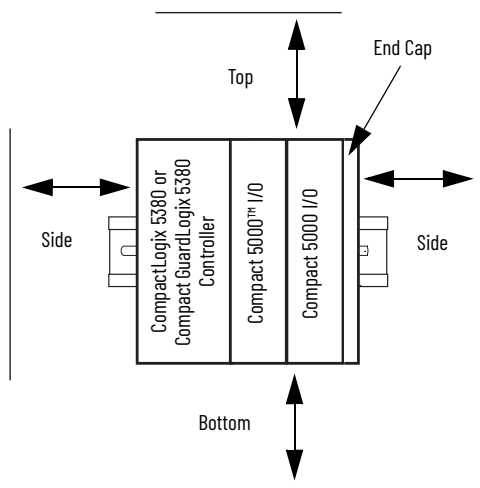
## Dimensions - Compact GuardLogix 5380 SIL 3 Controller



## CompactLogix 5380 or Compact GuardLogix 5380 System Minimum Space Requirements

The minimum distance between all sides of the CompactLogix 5380 system or Compact GuardLogix 5380 system and enclosure walls, wireways, and adjacent equipment varies based on the current operating temperature.

Controllers	Minimum Space at		
	50 °C (122 °F)	55 °C (131 °F)	60 °C (140 °F)
CompactLogix 5380 Standard and Process Controllers	50.8 mm (2.00 in)	50.80 mm (2.00 in)	101.60 mm (4.00 in)
Compact GuardLogix 5380 SIL 2 Controllers			
Series A catalog numbers	50.8 mm (2.00 in)	101.6 mm (4.00 in)	152.4 mm (6.00 in)
Series B catalog numbers	50.8 mm (2.00 in)	50.8 mm (2.00 in)	101.6 mm (4.00 in)
Compact GuardLogix 5380 SIL 3 Controllers	50.8 mm (2.00 in)	50.8 mm (2.00 in)	101.6 mm (4.00 in)



**IMPORTANT** If Compact 5000 I/O modules are installed next to a CompactLogix 5380 or Compact GuardLogix 5380, or CompactLogix 5480 controller, you must mount the system horizontally. You mount CompactLogix 5480 controllers in any orientation if there are no Compact 5000 I/O modules installed next to the controller.



# CompactLogix 5480 Controllers

The CompactLogix 5480 controllers are part of the Logix 5000 family of controllers. The controllers are real-time controllers with the Windows® 10 IoT Enterprise commercial operating system (COS) that runs in parallel to the Logix control engine.

The CompactLogix 5480 controllers deliver scalable control that is ideal for mid-size to large applications that require high-performance control and data throughput. The CompactLogix 5480 controllers also provide a truly integrated motion solution.

The controllers are mounted on a DIN rail. They can monitor and control local and remote I/O modules, and other devices connected to an EtherNet/IP network. The CompactLogix 5480 controllers support the following functionality for use with the control engine:

- Use of Compact 5000 I/O module as local I/O modules.
- Use Compact 5000 I/O modules, and other I/O modules, as remote I/O modules.
- Support for Integrated Motion over an EtherNet/IP network.
- Use of three Ethernet ports that can connect to enterprise-level and device-level EtherNet/IP networks, including star, linear, and DLR EtherNet/IP network topologies.
- Support for Linear/DLR and Dual-IP mode.
- Use of USB port for firmware updates and programming.
- Use of 1784-SD1, 1784-SD2, 1784-SDHC8, 1784-SDHC32, 9509-CMSDCD4 Secure Digital (SD) card for nonvolatile memory.

The COS lets you perform tasks on the controller that must be performed on an external workstation in other Logix 5000 control systems. The CompactLogix 5480 controllers come with these features for use in Windows-based applications:

- Embedded Ethernet port to connect the COS to an EtherNet/IP network or Enterprise network.
- Two USB 3.0 ports to connect peripherals such as a keyboard and mouse.
- DisplayPort to connect a monitor.
- Support for the installation and use of Rockwell Automation® applications, such as FactoryTalk® View Site Edition.

## Features - CompactLogix 5480 Controllers

Feature	5069-L430ERMW	5069-L450ERMW	5069-4100ERMW	5069-L4200ERMW
Controller tasks • Continuous • Periodic • Event	32 tasks 1000 programs/task All event triggers			
Built-in communication ports	Logix control engine use: • 3 - Ethernet, 10 Mbps/100 Mbps/1 Gbps • 1 - USB client <b>IMPORTANT:</b> Consider the following: • When the controller operates in Dual-IP mode, each Ethernet port requires a unique IP address. • When the controller operates in Linear/DLR mode, the controller DLR pair uses only one IP address. Windows 10 use: • 1 - Ethernet, 10 Mbps/100 Mbps/1 Gbps			
USB port communication	Logix control engine use: • USB 2.0, Type B • Full speed (480 Mbps) • Programming, configuration, firmware update, and online edits only Windows 10 use: • 2 - USB 3.0 ports to connect peripherals such as a keyboard and mouse			
Ethernet performance	10 Mbps, 100 Mbps, 1 Gbps Full-duplex only			
I/O Capacity (Class 0/1) <sup>(1)</sup>	128,000 packets/second			
Message Rate Capacity HMI/MSG (Class 3) <sup>(1)</sup>	2000 messages/second			
EtherNet/IP modes supported	Dual-IP mode Linear/DLR mode			
EtherNet/IP network topologies supported	DLR Star Linear			
EtherNet/IP nodes supported, max	60	120	180	250
Socket interfaces supported, max	32			

## Features - CompactLogix 5480 Controllers (Continued)

Feature	5069-L430ERMW	5069-L450ERMW	5069-4100ERMW	5069-L4200ERMW
Integrated motion				
Number of axes supported, max <sup>(2)</sup>	512			
Number of Integrated Motion on EtherNet/IP drive axes (Position loop-configured) supported, max <sup>(3)</sup>	16	24	32	150
Programming languages	Ladder Diagram (LD) Structured Text (ST) Function Block Diagram (FBD) Sequential Function Chart (SFC)			

- (1) I/O numbers are maximums; they assume no HMI/MSG. HMI/MSG numbers are maximums, they assume no I/O. Maximums assume that the processor is the target, not the originator. Packet rates vary depending on packet size. For more details, see Troubleshoot EtherNet/IP Application Technique, publication [ENET-AT003](#), and the EDS file for a specific catalog number.
- (2) Any combination of Integrated Motion on EtherNet/IP drive, Virtual, Consumed, Regenerative AC/DC Converter and Non-Regenerative AC/DC Converter axis types.
- (3) The maximum number of Integrated Motion on EtherNet/IP drive axes (configured for Position Loop) that can be included in the total integrated motion axes count for a controller.

## Technical Specifications - CompactLogix 5480 Controller

Attribute	5069-L430ERMW	5069-L450ERMW	5069-L4100ERMW	5069-L4200ERMW
User memory				
Windows 10 (COS on controller)	<ul style="list-style-type: none"> <li>RAM - 6 GB</li> <li>SSD: 64 GB</li> </ul>			
Logix control engine	3 MB	5 MB	10 MB	20 MB
Optional nonvolatile memory	1784-SD1 (1 GB) 1784-SD2 (2 GB), ships with controller 1784-SDHC8 (8 GB) 1784-SDHC32 (32 GB) 9509-CMSDCC4 (4 GB) CodeMeter CmCard SD			
Local I/O modules, max	31			
MOD Power voltage range	18...32V DC			
MOD Power power, max	72 W			
MOD Power current, typical	4 A			
MOD Power inrush	4 A for 15 ms			
MOD Power passthrough <sup>(1)</sup>	6 A @ 18...32V DC			
MOD Power current rating, max	10 A Do not exceed 10 A current draw at the MOD power RTB. <sup>(2)</sup>			
SA Power voltage ranges <sup>(3)</sup>	0...32V DC 0...240V AC, 47...63 Hz			
SA Power current, max <sup>(3)</sup>	10 mA (DC power) 25 mA (AC power)			
SA Power passthrough <sup>(3),(4)</sup>	9.99 A @ 0...32V DC 9.975 A @ 0...240V AC, 47...63 Hz			
SA Power current rating, max <sup>(3)</sup>	Do not exceed 10 A current draw at the SA power RTB.			
Power dissipation, max	72 W			
Thermal dissipation, max	245.7 BTU/hr			
Isolation voltage	300V (continuous), Basic Insulation Type, SA, and MOD Power to Backplane 300V (continuous), Basic Insulation Type, SA to MOD Power 300V (continuous), Basic Insulation Type, Ethernet to Backplane 300V (continuous), Double Insulation Type, Ethernet to MOD Power 300V (continuous), Double Insulation Type, Ethernet to SA Power 50V (continuous), Functional Insulation Type, Ethernet to USB ports and DisplayPort 300V (continuous), Basic Insulation Type, USB ports, and DisplayPort to Backplane 300V (continuous), Double Insulation Type, USB ports, and DisplayPort to MOD Power 300V (continuous), Double Insulation Type, USB ports, and DisplayPort to SA Power No isolation between Ethernet ports Type tested at 1500V AC for 60 s			
Weight, approx	1.754 kg (3.868 lb)			
Dimensions (HxWxD), approx	166.20 x 130.21 x 126.54 mm (6.54 x 5.13 x 4.98 in.)			

## Technical Specifications - CompactLogix 5480 Controller (Continued)

Attribute	5069-L430ERMW	5069-L450ERMW	5069-L4100ERMW	5069-L4200ERMW
Location	DIN rail mount (horizontal mount only)			
DIN rail	Compatible zinc-plated, chromate steel DIN rail. • EN50022 - 35 x 7.5 mm (1.38 x 0.30 in.) • EN50022 - 35 x 15 mm (1.38 x 0.60 in.)			
Removable terminal blocks	RTBs ship with the controller: • 5069-RTB64-SCREW kit: Includes 5069-RTB6-SCREW and 5069-RTB4-SCREW RTBs • 5069-L4UPSRTB			
Terminal block torque	5069-RTB4-SCREW, 5069-RTB6-SCREW, and 5069-L4UPSRTB connections: 0.4 N•m (3.5 lb•in) <b>ATTENTION:</b> Do not wire more than two conductors on one RTB terminal.			
Wire size	5069-RTB4-SCREW, 5069-RTB6-SCREW connections: 0.5...1.5 mm <sup>2</sup> (22...16 AWG) solid or stranded copper wire rated at 105 °C (221 °F), or greater, 3.5 mm (0.14 in.) max diameter including insulation, single wire connection only 5069-L4UPSRTB connections: 0.5...1.5 mm <sup>2</sup> (22...16 AWG) solid or stranded copper wire rated at 105 °C (221 °F), or greater, 2.9 mm (0.11 in.) max diameter including insulation, single wire connection only Ethernet connections: Ethernet Cabling and Installation according to IEC 61918 and IEC 61784-5-2			
Insulation stripping length	5069-RTB4-SCREW, 5069-RTB6-SCREW, and 5069-L4UPSRTB connections: 12 mm (0.47 in.)			
Wire category <sup>(5)</sup>	3 - on USB ports and DisplayPort 2 - on power ports 2 - on Ethernet ports			
Enclosure	None (open-style)			

- (1) Maximum level of MOD Power current that the controller can pass through to the next module in the system. The specific level of current passed through varies based on system configuration.
- (2) Remember, MOD power usage includes the total power that the controller and local Compact 5000 I/O modules use. If you connect external power to both sets of MOD power RTB terminals, however, the local Compact 5000 I/O modules can draw a maximum of 10 A in addition to the current that the controller draws.
- (3) SA power specifications are based on the number and type of Compact 5000 I/O modules that are used in the system. If the set of I/O modules that are used in the system require AC and DC voltage, you must install a 5069-FPD field potential distributor to separate the module types.
- (4) Maximum level of SA Power current that the controller can pass through to the next module in the system. The specific level of current passed through varies based on system configuration.
- (5) Use this Conductor Category information to plan conductor routing. See the Industrial Automation Wiring and Grounding Guidelines, publication [1770-4.1](#).

## Environmental Specifications - CompactLogix 5480 Controllers

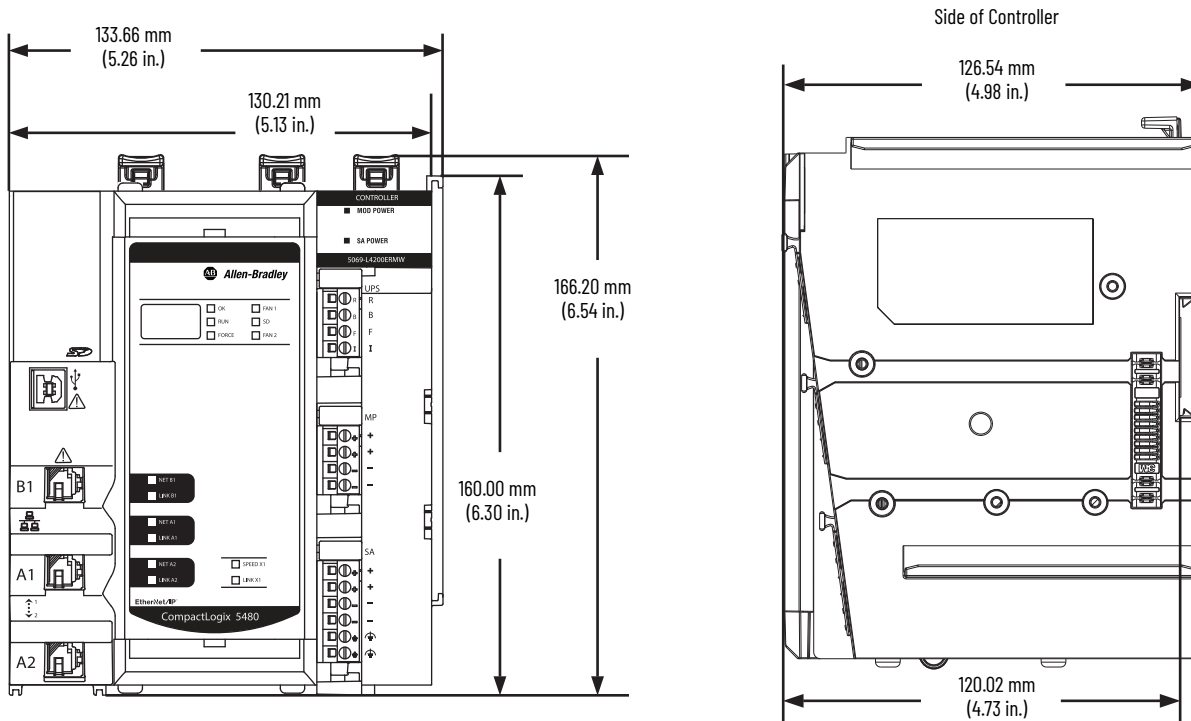
Attribute	5069-L430ERMW, 5069-L450ERMW, 5069-4100ERMW, 5069-L4200ERMW
Temperature, operating IEC 60068-2-1 (Test Ad, Operating Cold), IEC 60068-2-2 (Test Bd, Operating Dry Heat), IEC 60068-2-14 (Test Nb, Operating Thermal Shock)	0 °C < Ta < +60 °C (+32 °F < Ta < +140 °F)
Temperature, nonoperating IEC 60068-2-1 (Test Ab, Unpackaged Nonoperating Cold), IEC 60068-2-2 (Test Bb, Unpackaged Nonoperating Dry Heat), IEC 60068-2-14 (Test Na, Unpackaged Nonoperating Thermal Shock)	-40...+85 °C (-40...+185 °F)
Temperature, surrounding air, max	60 °C (140 °F)
Relative humidity IEC 60068-2-30 (Test Db, Unpackaged Damp Heat)	5...95% noncondensing
Vibration IEC 60068-2-6 (Test Fc, Operating)	2 g @ 10...500 Hz
Shock, nonoperating IEC 60068-2-27 (Test Ea, Unpackaged Shock)	30 g
Emissions	IEC 61000-6-4
ESD immunity IEC 61000-4-2	4 kV contact discharges 8 kV air discharges
Radiated RF immunity IEC 61000-4-3	10V/m with 1 kHz sine-wave 80% AM from 80...2000 MHz 10V/m with 200 Hz 50% Pulse 100% AM @ 900 MHz 10V/m with 200 Hz 50% Pulse 100% AM @ 1890 MHz 3V/m with 1 kHz sine-wave 80% AM from 2000...2700 MHz 3V/m with 1 kHz sine-wave 80% AM from 2700...6000 MHz
EFT/B immunity IEC 61000-4-4	± 2 kV at 5 kHz on power ports ± 1 kV at 5 kHz on Ethernet ports
Surge transient immunity IEC 61000-4-5	± 500V line-line (DM) and ± 1 kV line-earth (CM) on power ports ± 1 kV line-earth (CM) on Ethernet ports
Conducted RF immunity IEC 61000-4-6	10V rms with 1 kHz sine-wave 80% AM from 150 kHz...80 MHz on power and Ethernet ports
Magnetic Field Immunity IEC 61000-4-8	30 A/m long duration at 60 Hz
Voltage variation IEC 61000-4-29	10 ms interruption on MOD Power port

## Certifications - CompactLogix 5480 Controller

Certification <sup>(1)</sup>	5069-L430ERMW, 5069-L450ERMW, 5069-4100ERMW, 5069-L4200ERMW
c-UL-us	UL Listed Industrial Control Equipment, certified for US and Canada. See UL File E65584.
CE	European Union 2014/30/EU EMC Directive, compliant with: <ul style="list-style-type: none"> <li>EN 61326-1; Meas./Control/Lab., Industrial Requirements</li> <li>EN 61000-6-2; Industrial Immunity</li> <li>EN 61000-6-4; Industrial Emissions</li> <li>EN 61131-2; Programmable Controllers (Clause 8, Zone A &amp; B)</li> </ul> European Union 2014/35/EU LVD, compliant with: <ul style="list-style-type: none"> <li>EN 61010-2-201; Control Equipment Safety Requirements</li> </ul> European Union 2011/65/EU RoHS, compliant with: <ul style="list-style-type: none"> <li>EN IEC 63000; Technical documentation</li> </ul>
RCM	Australian Radiocommunications Act, compliant with: <ul style="list-style-type: none"> <li>EN 61000-6-4; Industrial Emissions</li> </ul>
KC	Korean Registration of Broadcasting and Communications Equipment, compliant with: <ul style="list-style-type: none"> <li>Article 58-2 of Radio Waves Act, Clause 3</li> </ul>
EAC	Russian Customs Union TR CU 020/2011 EMC Technical Regulation Russian Customs Union TR CU 004/2011 LV Technical Regulation
Morocco	Arrêté ministériel n° 6404-15 du 1 er muharram 1437 Arrêté ministériel n° 6404-15 du 29 ramadan 1436
UKCA	2016 No. 1091 - Electromagnetic Compatibility Regulations 2016 No. 1101 - Electrical Equipment (Safety) Regulations 2016 No. 1107 - Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2012 No. 3032 - Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations
EtherNet/IP	ODVA conformance tested to EtherNet/IP specifications

(1) See the Product Certification link at [rok.auto/certifications](http://rok.auto/certifications) for Declarations of Conformity, Certificates, and other certification details.

## CompactLogix 5480 Controller Dimensions



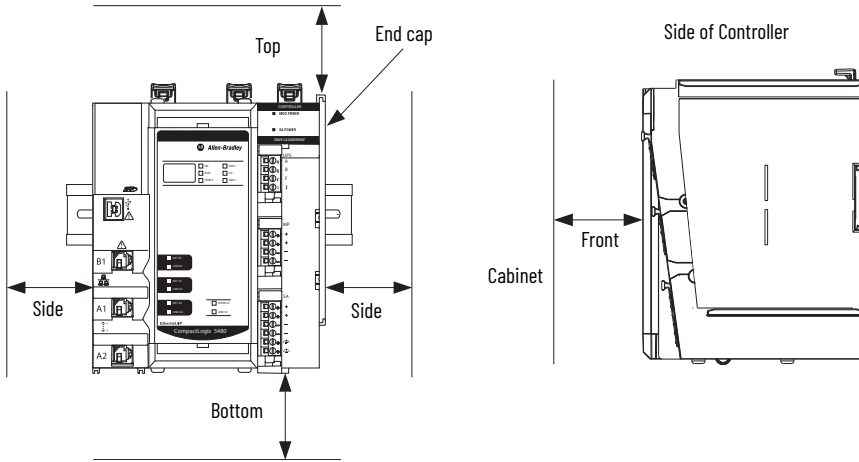
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## CompactLogix 5480 System Minimum Space Requirements

The minimum distance for a system that includes only a CompactLogix 5480 controller is as follows:

- 25.00 mm (0.98 in.) between the sides of the controller and the cabinet
- 25.00 mm (0.98 in.) between the front of the controller and the cabinet
- 50.00 mm (1.96 in.) between the top and bottom of the controller and the cabinet

We recommend that you install the controller near the bottom of the enclosure, where the ambient temperature is lower.



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**IMPORTANT** If Compact 5000 I/O modules are installed next to a CompactLogix 5380, Compact GuardLogix 5380, or CompactLogix 5480 controller, you must mount the system horizontally. You mount CompactLogix 5480 controllers in any orientation if there are no Compact 5000 I/O modules installed next to the controller.

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## Controller Use with Other Devices

You can use your controller in the following ways:

- [Control I/O Modules](#)
- [Communicate with Other Controllers](#)

### Control I/O Modules

The CompactLogix 5380 and Compact GuardLogix 5380 controllers can monitor and control local and remote I/O modules.

#### Local I/O Modules

- A CompactLogix 5380 and CompactLogix 5480 system supports Compact 5000 I/O standard modules as local I/O modules.
- A Compact GuardLogix 5380 system supports Compact 5000 I/O standard and safety modules as local modules.

The number of local I/O modules that are supported in a CompactLogix 5380 system or Compact GuardLogix 5380 system varies by controller catalog number.

Cat. No.	Local Compact 5000 I/O Modules Supported, Max	
	Standard I/O Modules	Any Combination of Standard and Safety I/O Modules
5069-L306ER, 5069-L306ERM	8	—
5069-L306ERS2, 5069-L306ERMS2, 5069-L306ERMS3		8
5069-L310ER, 5069-L310ER-NSE, 5069-L310ERM	8	—
5069-L310ERS2, 5069-L310ERS2K, 5069-L310ERMS2, 5069-L310ERMS2K, 5069-L310ERMS3, 5069-L310ERMS3K		8
5069-L320ER, 5069-L320ERM, 5069-L320ERMK, 5069-L320ERP	16	—
5069-L320ERS2, 5069-L320ERMS2, 5069-L320ERS2K, 5069-L320ERMS2K, 5069-L320ERMS3, 5069-L320ERMS3K		16
5069-L330ER, 5069-L330ERM <sup>(1)</sup> , 5069-L330ERMK <sup>(1)</sup>	31	—
5069-L330ERS2, 5069-L330ERMS2, 5069-L330ERS2K, 5069-L330ERMS2K, 5069-L330ERMS3, 5069-L330ERMS3K		31
5069-L340ER, 5069-L340ERM, 5069-L340ERP	31	—
5069-L340ERS2, 5069-L340ERMS2, 5069-L340ERMS3		31
5069-L350ERM, 5069-L350ERMK	31	—
5069-L350ERS2, 5069-L350ERMS2, 5069-L350ERS2K, 5069-L350ERMS2K, 5069-L350ERMS3, 5069-L350ERMS3K		31
5069-L380ERM	31	—
5069-L380ERS2, 5069-L380ERMS2, 5069-L380ERMS3		31
5069-L3100ERM	31	—
5069-L3100ERS2, 5069-L3100ERMS2, 5069-L3100ERMS3		31
5069-L430ERMW, 5069-L450ERMW, 5069-4100ERMW, 5069-L4200ERMW	31	—

(1) When you use these controllers with the Logix Designer application, version 29.00.00, the application limits the number of local I/O modules in the project to 16. For more information, see the Rockwell Automation Knowledgebase article [#942580](#), '5380 CompactLogix controllers limited to 16 local 5069 modules in V29 of Studio 5000'. The document is available at [rok.auto/knowledgebase](http://rok.auto/knowledgebase). With the Logix Designer application, version 30.00.00 or later, the controllers support 31 local I/O modules.

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## Remote I/O Modules

The controllers can connect to these remote I/O modules over an EtherNet/IP network.

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**IMPORTANT** For maximum performance, we recommend that you use Compact 5000 I/O modules when you use remote I/O modules.

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### Standard Remote I/O Modules supported by CompactLogix 5380, Compact GuardLogix 5380, and CompactLogix 5480 Controllers

Module Type	Standard I/O Module Family
Chassis-based I/O	1746 SLC™ I/O
	1756 ControlLogix® I/O
	1769 Compact I/O™
	Compact 5000 I/O standard modules
In-cabinet I/O	1734 POINT I/O™
	1794 FLEX™ I/O
	FLEX 5000® I/O
On-Machine™ I/O	1732 ArmorBlock® I/O
	1738 ArmorPOINT® I/O

### Safety Remote I/O Modules supported by Compact GuardLogix 5380 Controllers

Module Type	Safety I/O Module Family
Chassis-based I/O	Compact 5000 I/O Safety I/O
	1756 ControlLogix Safety I/O
In-cabinet I/O	CompactBlock™ Guard I/O™
	POINT Guard I/O™
	FLEX 5000 Safety I/O
On-Machine™ I/O	1732 ArmorBlock® Guard I/O™

## Communicate with Other Controllers

The controller can communicate with these programmable controllers.

Controller Type	Controller Family
Programmable automation controller	CompactLogix 5370
	CompactLogix 5380
	CompactLogix 5480
	Compact GuardLogix 5370 (safety)
	Compact GuardLogix 5380 (safety)
	ControlLogix 5570
	ControlLogix 5580
	GuardLogix 5570 (safety)
	GuardLogix 5580 (safety)
	1756 Armor™ ControlLogix (safety)
	1756 Armor™ GuardLogix® (safety)
	1768 Compact GuardLogix (safety)
	1768 CompactLogix
	1769 Modular CompactLogix
	1769 Packaged CompactLogix
Programmable logic controllers	1789 SoftLogix™ 5800
	PowerFlex® with DriveLogix™
	1785 PLC-5 <sup>®(1)</sup>
	1747 SLC™ <sup>(1)</sup>
	1761 MicroLogix™ <sup>(2)</sup>
	1762 MicroLogix <sup>(2)</sup>
	1763 MicroLogix
	1764 MicroLogix <sup>(2)</sup>
	1766 MicroLogix

(1) These controllers require a built-in Ethernet port or a 1761-NET-ENI, EtherNet/IP RS-232-C interface to communicate with a CompactLogix 5380 controller over an EtherNet/IP network.

(2) These controllers require a 1761-NET-ENI, EtherNet/IP RS-232-C interface to communicate with a CompactLogix 5380 controller over an EtherNet/IP network.



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## Ethernet Node Limits

When you configure a CompactLogix 5380, Compact GuardLogix 5380, or CompactLogix 5480 control system, consider the number of Ethernet nodes that are used. The number of Ethernet nodes that you can include in the I/O configuration section in the Logix Designer application project is limited.

### Maximum Number of Ethernet Nodes

The number of nodes that are supported in a Logix Designer application project varies by CompactLogix 5380, Compact GuardLogix 5380, and CompactLogix 5480 controller.

The maximum number of nodes that are listed represents when the controller is used with the Logix Designer application, version 31 or later. You can use CompactLogix 5380 controllers with earlier Logix Designer application versions. The maximum number of nodes that a controller supports can be fewer in the Logix Designer application, versions 30 or earlier.

Catalog Number	Ethernet Nodes Supported
5069-L306ER, 5069-L306ERM, 5069-L306ERS2, 5069-L306ERMS2, 5069-L306ERMS3	16
5069-L310ER, 5069-L310ER-NSE, 5069-L310ERM, 5069-L310ERMK, 5069-L310ERS2, 5069-L310ERS2K, 5069-L310ERMS2, 5069-L310ERMS2K, 5069-L310ERMS3, 5069-L310ERMS3K	24
5069-L320ER, 5069-L320ERM, 5069-L320ERMK, 5069-L320ERP, 5069-L320ERS2, 5069-L320ERMS2, 5069-L320ERS2K, 5069-L320ERMS2K, 5069-L320ERMS3, 5069-L320ERMS3K	40
5069-L330ER, 5069-L330ERM, 5069-L330ERMK, 5069-L330ERS2, 5069-L330ERMS2, 5069-L330ERS2K, 5069-L330ERMS2K, 5069-L330ERMS3, 5069-L330ERMS3K	60
5069-L340ER, 5069-L340ERM, 5069-L340ERP, 5069-L340ERS2, 5069-L340ERMS2, 5069-L340ERMS3	90
5069-L350ERM, 5069-L350ERMK, 5069-L350ERS2, 5069-L350ERMS2, 5069-L350ERS2K, 5069-L350ERMS2K	120
5069-L380ERM, 5069-L380ERS2, 5069-L380ERMS2, 5069-L380ERMS3	150
5069-L3100ERM, 5069-L3100ERS2, 5069-L3100ERMS2, 5069-L3100ERMS3	180
5069-L430ERMW	60
5069-L450ERMW	120
5069-4100ERMW	180
5069-L4200ERMW	250

Any devices that you add directly to the I/O configuration section are counted toward the Ethernet node limit. The following are examples of devices that must be counted:

- Remote communication adapters
- Devices with an embedded Ethernet port, such as I/O modules, drives, and linking devices
- Remote controllers when a produce/consume connection is established between the two controllers
- HMI devices that are included in the I/O configuration tree
- Third-party devices that are directly connected to the EtherNet/IP network

## Accessories

The following accessories are used with a CompactLogix 5380, Compact GuardLogix 5380, or CompactLogix 5480 controller:

- [End Cap](#)
- [Memory Cards](#)
- [Removable Terminal Kits](#) - For CompactLogix 5380 and Compact GuardLogix 5380 controllers, Removable Terminal Blocks (RTB) are available in separately ordered 5069 RTB kits. For CompactLogix 5480 controllers, the required RTB kit ships with the controllers.

### End Cap

You must install an end cap, catalog number 5069-ECR, on the right side of the last module in a CompactLogix 5380, Compact GuardLogix 5380, or CompactLogix 5480 control system. The end cap is shipped with the controller.



**SHOCK HAZARD:** The end cap covers the exposed interconnections on the last module in the system. If you do not install the end cap before powering the system, equipment damage or injury from electric shock can result.

### Memory Cards

Memory cards, also known as Secure Digital (SD) cards, offer nonvolatile memory to store a user program and tag data on a controller. Through the Logix Designer application, you can manually trigger the controller to save to or load from nonvolatile memory or configure the controller to load from nonvolatile memory on power-up.

A 1784-SD2 card ships with the controller. If you need additional SD cards, we recommend that you use one that is available from Rockwell Automation. The following SD cards are available to use with the controllers:

- 1784-SD1 (1 GB)
- 1784-SD2 (2 GB)
- 1784-SDHC8 (8 GB)
- 1784-SDHC32 (32 GB)
- 9509-CMSDCD4 (4 GB)

We recommend that you use the SD cards available from Rockwell Automation.

#### Technical Specifications - SD Cards

Attribute	1784-SD1	1784-SD2	1784-SDHC8	1784-SDHC32	9509-CMSDCD4 <sup>(1)</sup>
Memory	1 GB	2 GB	8 GB	32 GB	4 GB
Supported controllers	CompactLogix 5380, Compact GuardLogix 5380, CompactLogix 5480 controllers				
Weight, approx	1.76 g (0.062 oz)				2 g (0.07 oz)

(1) This card is used when license-based source protection and execution protection features are enabled.

## Environmental Specifications - SD Cards

Attribute	1784-SD1, 1784-SD2
Temperature, operating IEC 60068-2-1 (Test Ad, Operating Cold), IEC 60068-2-2 (Test Bd, Operating Dry Heat), IEC 60068-2-14 (Test Nb, Operating Thermal Shock)	-40...+85 °C (-13...+185 °F)
Temperature, storage IEC 60068-2-1 (Test Ab, Unpackaged Nonoperating Cold), IEC 60068-2-2 (Test Bb, Unpackaged Nonoperating Dry Heat), IEC 60068-2-14 (Test Na, Unpackaged Nonoperating Thermal Shock)	-65...+150 °C (-85...+302 °F)
Relative humidity IEC 60068-2-30 (Test Db, Unpackaged Damp Heat)	5...95% noncondensing
Vibration IEC 60068-2-6 (Test Fc, Operating)	15 g peak to peak
Shock, operating IEC 60068-2-27 (Test Ea, Unpackaged Shock)	30 g
Shock, nonoperating IEC 60068-2-27 (Test Ea, Unpackaged Shock)	50 g
Emissions	IEC 61000-6-4
ESD immunity IEC 61000-4-2	6 kV contact discharges 8 kV air discharges
Radiated RF immunity IEC 61000-4-3	10V/m with 1 kHz sine-wave 80% AM from 80...2000 MHz 10V/m with 200 Hz 50% Pulse 100% AM @ 900 MHz 10V/m with 200 Hz 50% Pulse 100% AM @ 1890 MHz 3V/m with 1 kHz sine-wave 80% AM from 2000...2700 MHz

## Certifications - SD Cards

Certification <sup>(1)</sup>	1784-SD1, 1784-SD2
CE	European Union 2014/30/EU EMC Directive, compliant with: <ul style="list-style-type: none"> <li>EN 61000-6-4; Industrial Emissions</li> <li>EN 61326-1; Meas./Control/Lab., Industrial Requirements</li> <li>EN 61000-6-2; Industrial Immunity</li> <li>EN 61131-2; Programmable Controllers (Clause 8, Zone A &amp; B)</li> </ul>
RCM	Australian Radiocommunications Act, compliant with: <ul style="list-style-type: none"> <li>AS/NZS CISPR 11; Industrial Emissions</li> </ul>
KC	Korean Registration of Broadcasting and Communications Equipment, compliant with: <ul style="list-style-type: none"> <li>Article 58-2 of Radio Waves Act, Clause 3</li> </ul>

(1) When marked. See the Product Certification link at [rok.auto/certifications](http://rok.auto/certifications) for Declarations of Conformity, Certificates, and other certification details.

## Removable Terminal Kits

You can order Removable Terminal Blocks (RTBs) to connect MOD power and SA power to CompactLogix 5380 and Compact GuardLogix 5380 controllers. The RTBs are used to wire power to the controllers. The MOD power connection uses a 4-point RTB, and the SA power connection uses a 6-point RTB.

### CompactLogix 5380 and Compact GuardLogix 5380 Controllers - RTBs

Cat. No.	Description
5069-RTB64-SCREW	Contains the following: <ul style="list-style-type: none"> <li>5069-RTB6-SCREW - 6-point RTB that uses screw-type terminals</li> <li>5069-RTB4-SCREW - 4-point RTB that uses screw-type terminals</li> </ul>
5069-RTB64-SPRING	Contains the following: <ul style="list-style-type: none"> <li>5069-RTB6-SPRING - 6-point RTB that uses spring-type terminals to connect SA power to the controller.</li> <li>5069-RTB4-SPRING - 4-point RTB that uses spring-type terminals to connect MOD power to the controller.</li> </ul>

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**Notes:**

## Additional Resources

These documents contain additional information concerning related products from Rockwell Automation.

Resource	Description
CompactLogix Controllers Selection Guide, publication <a href="#">1769-SG001</a>	Describes how to design and select components for your CompactLogix™ controller system.
CompactLogix 5380 and Compact GuardLogix Controllers User Manual, publication <a href="#">5069-UM001</a>	Describes how to use CompactLogix 5380 and Compact GuardLogix® 5380 controllers.
CompactLogix 5480 Controllers User Manual, publication <a href="#">5069-UM002</a>	Describes how to use CompactLogix 5480 controllers.
Compact 5000 I/O Modules and EtherNet/IP Adapters Specifications Technical Data, publication <a href="#">5069-TD001</a>	Provides specifications, wiring diagrams, and functional block diagrams for Compact 5000™ I/O modules and EtherNet/IP™ adapters.
Compact 5000 I/O Digital Modules User Manual, publication <a href="#">5069-UM004</a>	Describes how to configure and operate Compact 5000 I/O digital and safety modules.
Compact 5000 I/O Analog Modules User Manual, publication <a href="#">5069-UM005</a>	Describes how to configure and operate Compact 5000 I/O analog modules.
Compact 5000 I/O High-speed Counter Module User Manual, publication <a href="#">5069-UM006</a>	Describes how to configure and operate a Compact 5000 I/O high-speed counter module.
Replacement Guidelines: Logix 5000 Controllers Reference Manual, publication <a href="#">1756-RM100</a>	Describes how to replace the following: ControlLogix® 5560/5570 controller with a ControlLogix 5580 controller CompactLogix 5370 L3 controllers with a CompactLogix 5380 controller
Compact 5000 EtherNet/IP Adapters User Manual, publication <a href="#">5069-UM007</a>	Describes how to use Compact 5000 I/O and FLEX 5000 I/O EtherNet/IP communication modules.
Integrated Architecture and CIP Sync Configuration Application Technique, publication <a href="#">IA-AT003</a>	Provides information on CIP Sync™ and the IEEE 1588-2008 Precision Time Protocol.
Integrated Architecture Tools website, <a href="http://www.rockwellautomation.com/global/products-technologies/integrated-architecture/tools/overview.page">http://www.rockwellautomation.com/global/products-technologies/integrated-architecture/tools/overview.page</a>	Provides information on tools that you can use in the selection, development, commissioning, and maintenance stages of the Integrated Architecture® lifecycle.
Industrial Automation Wiring and Grounding Guidelines, publication <a href="#">1770-4.1</a>	Provides general guidelines for installing a Rockwell Automation industrial system.
Product Certifications website, <a href="http://rok.auto/certifications">rok.auto/certifications</a>	Provides declarations of conformity, certificates, and other certification details.

You can view or download publications at [rok.auto/literature](http://rok.auto/literature).

# Rockwell Automation Support

Use these resources to access support information.

<b>Technical Support Center</b>	Find help with how-to videos, FAQs, chat, user forums, and product notification updates.	<a href="http://rok.auto/support">rok.auto/support</a>
<b>Knowledgebase</b>	Access Knowledgebase articles.	<a href="http://rok.auto/knowledgebase">rok.auto/knowledgebase</a>
<b>Local Technical Support Phone Numbers</b>	Locate the telephone number for your country.	<a href="http://rok.auto/phonesupport">rok.auto/phonesupport</a>
<b>Literature Library</b>	Find installation instructions, manuals, brochures, and technical data publications.	<a href="http://rok.auto/literature">rok.auto/literature</a>
<b>Product Compatibility and Download Center (PCDC)</b>	Get help determining how products interact, check features and capabilities, and find associated firmware.	<a href="http://rok.auto/pcdc">rok.auto/pcdc</a>

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Rockwell Otomasyon Ticaret A.Ş. Kar Plaza İş Merkezi E Blok Kat:6 34752, İçerenköy, İstanbul, Tel: +90 (216) 5698400 EEE Yönetmeliğine Uygundur

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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

UNITED KINGDOM: Rockwell Automation Ltd. Pitfield, Kiln Farm Milton Keynes, MK11 3DR, United Kingdom, Tel: (44)(1908) 838-800, Fax: (44)(1908) 261-917

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