1768 Compact GuardLogix
Integrated Safety Controller

Automation users and manufacturers continue to look for flexible solutions that can help address global safety standards and regulations. These regulations combined with competitive pressures to reduce costs and improve productivity demand a better integration of standard and safety control.

Expanding the GuardLogix family of safety controllers, the Allen-Bradley® Compact GuardLogix™ controller, provides SIL safety control partnering with the CompactLogix® processor for true integrated safety with unmatched ease of use.

Benefits

- RSLogix™ 5000
  - Single controller view
- Standard Control Task(s)
  - Same functionality as CompactLogix
- Safety Control Task
  - Automatically created with tools that restrict user implementation to safety functions
  - Restricted set of features and functions
  - Safety specific instructions
  - Security (Safety Task Signature, Locking)
  - Safety I/O
- 25 TUV-certified Safety Application instructions reduce memory usage, improve logic creation, and make troubleshooting/maintenance easy.
- Leverages standard CompactLogix hardware
  - 1768 Power supplies, Communications

Integrated Safety in a Mid-range Control Platform

The Allen-Bradley Compact GuardLogix controller brings together the standard control functionality of the Logix Control Platform – common programming environment, common networks and a common control engine – with the full range of integrated safety functionality of GuardLogix controllers in a smaller package. This provides you with unmatched scalability and flexibility across a wide range of applications.

Ideal for mid-range applications, Compact GuardLogix controls up to eight axes of motion and supports the use of CompactBlock Guard I/O and POINT Guard I/O on Ethernet/IP, which creates a new option for machine builders looking to cost-effectively standardize on a single integrated safety control platform.
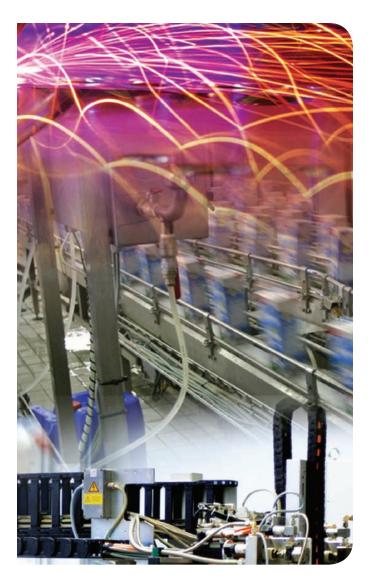
The Compact GuardLogix features a 1oo2 safety architecture and is rated up to and including Safety Integrity Level 3 (SIL 3), Performance Level e (PL e) functionality.

SIL (Safety Integrity Level) is a measure of a products ability to lower the risk that a dangerous failure could occur. As defined in IEC 61508 "Functional Safety of Electrical/Electronic/ Programmable Safety - Related Systems". SIL defines a products ability to operate in safety-rated aspects of a control system. SIL 2 and SIL 3 are the most common levels for machinery and process safety applications, GuardLogix can be used in applications that require the use of SIL 2 or SIL 3 compliant products.

Compact GuardLogix is ideal for systems that require standalone and system-connected control over EtherNet/IP™ or ControlNet.™ Think every place you need economical, reliable control.

Compact GuardLogix safety controllers can provide:

- High functionality in an economical platform
- Rackless I/O for flexible installation
- Analog, digital and specialty modules that cover a wide range of applications
- Advanced system connectivity to EtherNet/IP, ControlNet, and DeviceNet Networks
- Truly integrated safety and motion control

With Compact GuardLogix, you can reap the advantages of using RSLogix 5000, the standard development environment for all Allen-Bradley Logix controllers. The flexible tagbased system is the easiest to use on the market today. Plus, RSLogix 5000 manages safety, so you don't have to manually manage the separation of standard and safety memory, or worry about partitioning logic to isolate safety, it's all done for you by RSLogix 5000.

Compact GuardLogix Controllers

1768 L43S	2 Meg Standard Memory ½ Meg Safety Memory
1768 L45S	3 Meg Standard Memory 1 Meg Safety Memory

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