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GuardLogix Integrated Safety System





GuardLogix Integrated Safety System Overview

A GuardLogix® controller is a full-function Logix processor that also provides safety control. The GuardLogix system is a dual processor solution that uses a primary controller and a safety partner to achieve SIL 3, PLe. A major benefit of this system is that it is a single project, with safety and standard control together. The GuardLogix system is a 1oo2 safety architecture that provides unmatched safety and ease of use.

Just like other Logix processors during development, safety and standard have the same rules. Online editing, forcing, even multiple users are all allowed. Once the project is tested and ready for final validation, you set the Safety Task to a SIL 3 integrity level, which is then enforced by the GuardLogix controller. When safety memory is locked and protected, the safety logic cannot be modified. On the standard side of the GuardLogix controller, all functions operate like a regular Logix controller, motion, drive, sequential, even process. Thus, online editing, forcing, and other activities are all allowed, while safety is securely isolated.

With this level of integration, safety memory can be read by standard logic and external devices, such as HMIs or other controllers, eliminating the need to condition safety memory for use elsewhere. The result is easy, system-wide integration and the ability to display safety status on displays or marquees. Use Guard I/O modules for field device connectivity on Ethernet or DeviceNet networks. For safety interlocking between GuardLogix controllers, use Ethernet or ControlNet networks. Multiple GuardLogix controllers can share safety data for zone-to-zone interlocking, or a single GuardLogix controller can use remote distributed safety I/O between different cells/areas.

Features

In addition to the standard features of a Logix controller, GuardLogix controllers have these safety-related features.

Feature	1756-L61S, 1756-L62S, 1756-L63S, 1756-LSP	1756-L71S, 1756-L72S, 1756-L73S, 1756-L7SP	1768-L43S, 1768-L45S	
Communication options	Standard and safety • EtherNet/IP • ControlNet • DeviceNet		Standard • EtherNet/IP • ControlNet • DeviceNet	Safety • EtherNet/IP • ControlNet
Network connections, per network module	• 256 EtherNet/IP; 128 TCP (1756-EN2x) • 128 EtherNet/IP; 64 TCP (1756-ENBT) • 100 ControlNet (1756-CN2/A) • 40 ControlNet (1756-CNB)		• 128 EtherNet/IP; 64 TCP (1768-ENBT) • 48 ControlNet (1768-CNB)	
Controller redundancy	Not supported			
Programming languages	Standard control—all languages Safety control—relay ladder			

Environmentals and Certifications

GuardLogix Controllers Environmental Specifications

	1756 GuardLogix Controller	1756 GuardLogix-XT Controllers	1768 Compact GuardLogix Controllers
Operating temperature	0...60 °C (32...140 °F)	-25...70 °C (-13...158 °F)	0...60 °C (32...140 °F)
Storage temperature	-40...85 °C (-40...185 °F)	-40...85 °C (-40...185 °F)	-40...85 °C (-40...185 °F)
Relative humidity	5...95% noncondensing	5...95% noncondensing	5...95% noncondensing
Vibration	2 g at 10...500 Hz	2 g at 10...500 Hz	5 g at 10...500 Hz
Operating shock	30 g	30 g	30 g
Nonoperating shock	50 g	50 g	50 g

GuardLogix Controllers Certifications

Certifications: (When product is marked.) UL, c-UL-us, CE, CSA, C-Tick, FM, ATEX, certified by TÜV for Functional Safety.

See the Product Certifications link at ab.rockwellautomation.com for Declarations of Conformity, Certificates, and other certification details. For TÜV and SIL certification details, see the Safety Certificates and SIL link.

GuardLogix Controllers

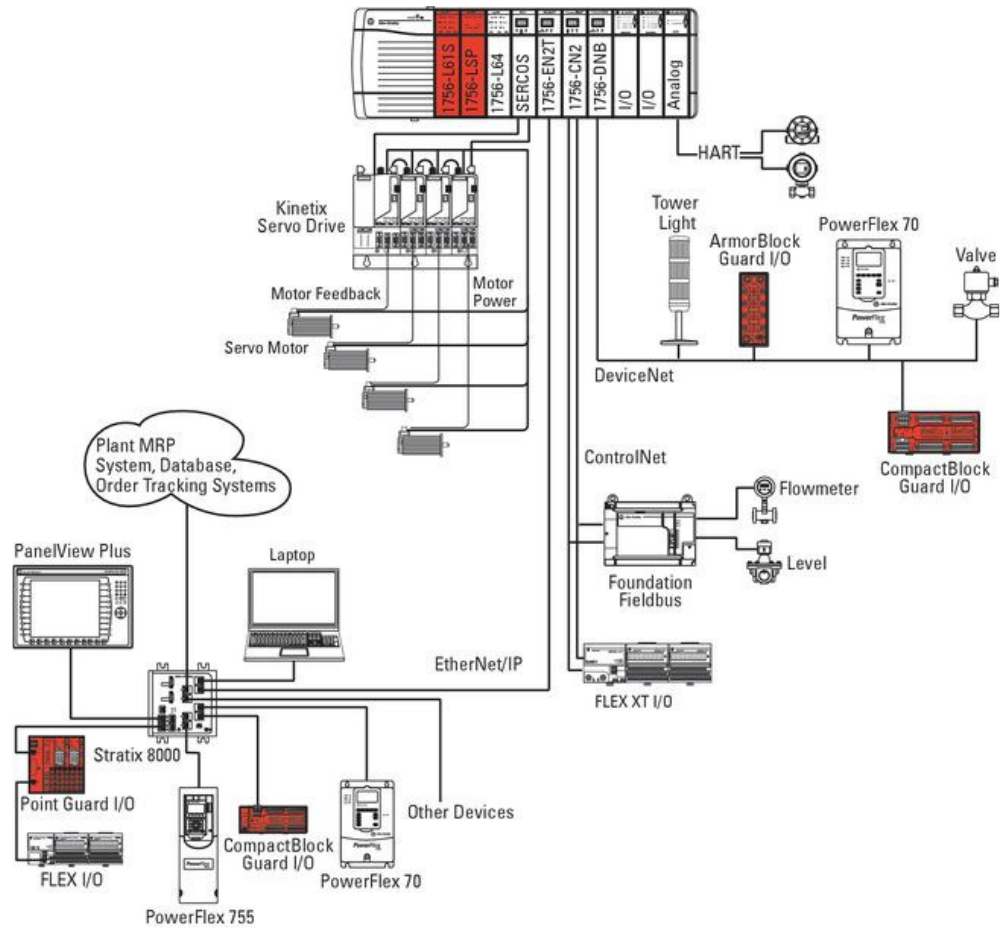
Bul. 1756 ControlLogix Controllers Specifications [PDF]

Bul. 1768 Compact GuardLogix Specifications [PDF]

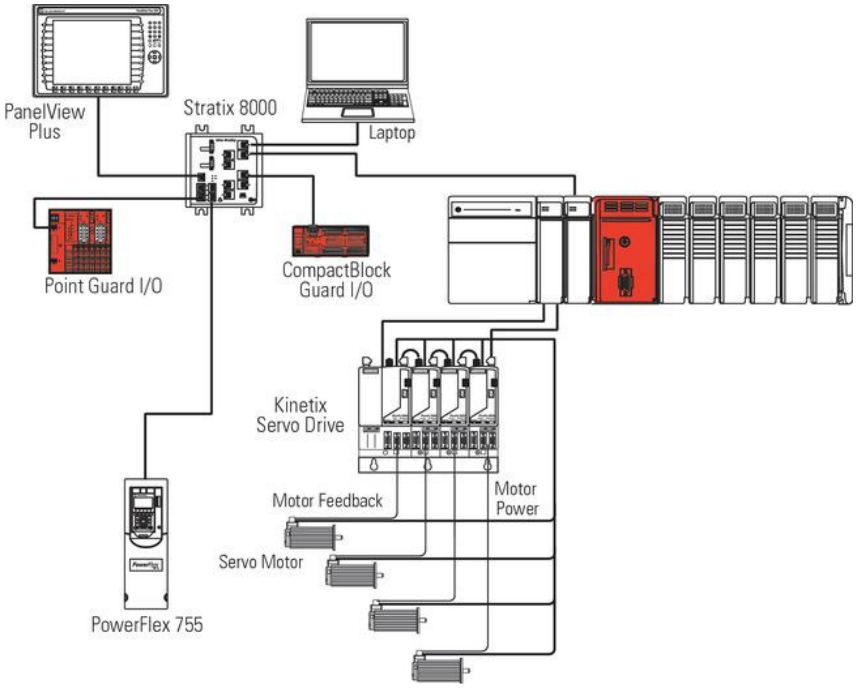
Cat. No.	Description	User Memory		Module Expansion Capacity§
		Standard Tasks and Components	Safety Task and Components	
1756-L61S	GuardLogix safety controller	2 MB	1 MB	Not applicable
1756-L62S		4 MB	1 MB	
1756-L63S		8 MB	3.75 MB	
1756-LSP	GuardLogix safety partner⋆	–	–	
1756-L71S	GuardLogix safety controller	2 MB	1 MB	
1756-L72S		4 MB	2 MB	
1756-L73S		8 MB	4 MB	
1756-L71SK	Conformally coated GuardLogix safety controller	2 MB	1 MB	
1756-L72SK		4 MB	2 MB	
1756-L73SK		8 MB	4 MB	
1756-L7SP	GuardLogix safety partner⋆	–	–	
1756-L7SPK	Conformally coated GuardLogix safety partner⋆	–	–	
1768-L43S	Compact GuardLogix safety controller	2 MB	0.5 MB	1768 Modules: 2 1769 Modules: 16
1768-L45S		3 MB	1 MB	1768 Modules: 4 1769 Modules: 30

⋆ A safety partner is required for each 1756 GuardLogix controller.
§ You can install any combination of motion and network modules in a 1768 system. A maximum of two network modules may be installed in a 1768 system.

Example Configuration—1756 GuardLogix System



Example Configuration—1768 Compact GuardLogix System



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