

Allen-Bradley 1756 Series Service Manual

1756-L63S

1. Description

The Allen-Bradley/Rockwell Automation 1756-L63S controller is a GuardLogix controller from the Allen-Bradley ControlLogix product line. This GuardLogix controller comes with all of the same features as the standard ControlLogix controllers, but it also has several safety related features. The 1756-L63S GuardLogix controller supports both standard and safety communication through the EtherNet/IP, DeviceNet, and ControlNet networks. It has a user memory capacity of 8 MB and a safety memory capacity

2. Specifications

Specification	Value
Manufacturer	Rockwell Automation
Brand	Allen-Bradley
Part	Number/Catalog No. 1756-L63S
Series	ControlLogix
Module	Type GuardLogix Controller
I-O	Memory 478 KB
User	Memory 8 MB
Maximum	I-O 128,000
Maximum	Analog I-O 4,000
Maximum	Digital I-O 128,000
Current	Draw (5.1 Volts DC) 1200 Miliamperes
Current	Draw (24 Volts DC) 14 Miliamperes
Power	Dissipation 3.5 Watts
Thermal	Dissipation 11.9 BTU per hour
Isolation	Voltage 30 Volts Continuous
Enclosure	None (Open-Style)
UPC	10612598345356
Description	
The	1756-L63S is a ControlLogix Allen Bradley product that features a GuardLogix controller with an I-O memory of 478 KB. This product is equipped with a vast 8 MB user memory and is capable of OS upgrades, user program storage, and data retrieval by way of memory cards.

3. Product Information

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Technical specifications for 1756-L63S

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Brand Allen-Bradley

Part Number/Catalog No. 1756-L63S

Series ControlLogix

Module Type GuardLogix Controller

I-O Memory 478 KB

User Memory 8 MB

Maximum I-O 128,000

Maximum Analog I-O 4,000

Maximum Digital I-O 128,000

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For safety-related functions in the 1756-L63S system, an isolated second channel is provided by the coprocessor safety partner. There is no key switch or communication port available and the entire operation and configuration are operated and controlled by the primary controller. Physical connections between a GuardLogix controller and modules are supported by the ControlLogix chassis.

The 1756-L63S controller is equipped with a built-in lithium battery; its primary controller exhibits numerous beneficial points like report generation, arithmetic computations, data file manipulation, I/O control and much more.

The controller system combines an array of modes like RUN, PROGram, and REMote. Its exclusive key switch positions are neatly placed on the body of the device for smooth and controlled functioning, and its power supply is highly suitable for SIL 3 applications. It does not require any kind of additional configuration or wiring for power supply operations.

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