

Allen-Bradley 1756 Series Service Manual

1756-L63

1. Description

Mfr. Part Number:

2. Specifications

Specification	Value
Manufacturer	Rockwell Automation
Maximum	Analog I-O 4000
Maximum	I-O 128000
Module	Type Processor Module
Series	ControlLogix
Part	Number/Catalog No. 1756-L63
Brand	Allen-Bradley
Product	Type Programmable Automation Controller
I/O	Memory 478 KB
User	Memory 8 MB
Non-volatile	memory 128 MB (optional)
No.	of task 32
Programs	per task 100 Programs
Event	Task All Triggers
Built-in	communication 1 USB port
Optional	Communication adapters • EtherNet/IP • ControlNet • DeviceNet • Data Highway Plus • Remote I/O • SynchLink • Third-party process and device networks
Redundancy	Full Support
Fixed	Memory 2, 4, or 8 MB
Nonvolatile	Memory See Compact Flash Card 1784-CF64
Program	Scan Time 0.08 milliseconds
Backplane	Current (5Volts DC) 1.2 Amps
Backplane	Current (24 Volts DC) 14 milliamps
Weight	0.71 pounds (0.32 kilograms)
Vibration	10 to 500 Hertz
Relative	Humidity 5 to 95%
Battery	1756-BA1 or 1756-BATM
UPC	10612598073433 Description
The	1756-L63 is a Programmable Automation Controller (PAC) from AI

3. Product Information

Mfr. Part Number:

1756-L63

Manufacturer: Allen-Bradley / Rockwell Automation

Description: Allen-Bradley 1756-L63 ControlLogix Logix5563 Processor, 8MB Memory

Full Description: Allen-Bradley 1756-L63 ControlLogix Logix5563 Controller with 8 Mbyte Memory with (1) RS-232 Serial Port, 32 Tasks, 100 Programs/Task The Allen-Bradley 1756-L63 is a 5560 ControlLogix Programmable Automation Controller (PAC). This controller features 8 MB user memory and I/O memory of 478 KB. It has 1 RS232 Serial port and supports interfacing of up to 128,000 Discrete I/O and 4000 Analog I/O memory. Technical specifications for 1756-L63

Manufacturer Rockwell Automation

Maximum Analog I-O 4000

Maximum I-O 128000

Module Type Processor Module

Series ControlLogix

Part Number/Catalog No. 1756-L63

Brand Allen-Bradley

Product Type Programmable Automation Controller

I/O Memory 478 KB

User Memory 8 MB

Non-volatile memory 128 MB (optional)

No. of task 32

Programs per task 100 Programs

Event Task All Triggers

Built-in communication 1 USB port

Optional Communication adapters • EtherNet/IP • ControlNet • DeviceNet • Data Highway Plus • Remote I/O • SynchLink • Third-party process and device networks

Redundancy Full Support

Fixed Memory 2, 4, or 8 MB

Nonvolatile Memory See Compact Flash Card 1784-CF64

Program Scan Time 0.08 milliseconds

Backplane Current (5Volts DC) 1.2 Amps

Backplane Current (24 Volts DC) 14 milliamps

Weight 0.71 pounds (0.32 kilograms)

Vibration 10 to 500 Hertz

Relative Humidity 5 to 95%

Battery 1756-BA1 or 1756-BATM

UPC 10612598073433 Description

The 1756-L63 is a Programmable Automation Controller (PAC) from Allen-Bradley. This controller is part of the earlier Logix controller version which is specifically part of the 5560 product series. This controller comes with an RS232 Serial communication interface as the primary communication port, however, this controller supports other communication protocols such as EtherNet/IP, ControlNet, DeviceNet, Data Highway Plus, Remote I/O, SynchLink and other 3rd party communication protocols by installing Allen-Bradley communication adapters and encompass partner modules.

The 1756-L63 is a Chassis based controller. It is installed a variety of ControlLogix chassis such as 1756-A4, 1756-A7, 1756-A10, 1756-A13, and 1756-A17. It is also compatible for use with standard and redundant power supplies such as 1756-PA50, 1756-PA72, 1756-PA75, 1756-PB50, 1756-PB72, 1756-PB75 or 1756-PA75R, 1756-PB75R, 1756-PSCA2, respectively. It supports implementation of controller redundancy as well as integrated motion using Serial Real-Time Communication System (SERCOS), Analog options via encoder input, LDT input, SSI input and motion over Ethernet I/P network.

This controller comes with 8 MB user memory and I/O memory of 478 KB. It may be added with non-volatile memory storage via the 1784-CF128 only which has 128 MB memory size. For I/O interfacing, this controller supports up to 128,000 Discrete Input and Output and 4000 Analog Input and Output signals. It uses battery backed-up Random Access Memory (RAM) with battery part numbers of 1756-BA1, 1756-BATM, 1756-BATA for Series A controllers and 1756-BA2 Series B controllers.

The 1756-L63 controller has a built-in RS-132 serial communication port. The communication options available for this controller include the DeviceNet, ControlNet, EtherNet/IP, SynchLink, Remote I/O, Data Highway Plus, and third-party process and device networks. Serial port communications modules that this controller supports are the Modbus via logic, DH-485, DF1 radio modem, ASCII, and the DF1 full/half-duplex modules. The continuous isolation voltage of the 1756-L63 controller is 30 Volts and it has a basic insulation type. It has also been type-tested at 720 Volts DC for 60 seconds. It has a power dissipation of 3.5 W and a thermal dissipation of 11.9 BTU/hour. Its current draw at 5.1 Volts DC is 1200 mA and its current draw at 24 Volts DC is 14 mA. It has a vibration of 2 g at 10 to 500 Hertz. The 1756-L63 controller has an operating shock of 30 g and a non-operating shock of 50 g. It also has an operating temperature range of 0 to 60 degrees Celsius and a non-operating temperature range of -40 to 85 degrees Celsius. It also has a maximum surrounding air temperature of 60 degrees Celsius.

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