

# Allen-Bradley 1756 Series Service Manual

1756-L64

## 1. Description

Mfr. Part Number:

## 2. Specifications

| Specification | Value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Manufacturer  | Rockwell Automation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Brand         | Allen-Bradley                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Part          | Number/Catalog No. 1756-L64                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Series        | ControlLogix                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Module        | Type Processor Module                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| I-O           | Memory 478 Kilobytes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| User          | Memory 16 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 milliamps                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Current       | Draw (24 Volts DC) 14 milliamps                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Power         | Dissipation 3.5 Watts                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Thermal       | Dissipation 11.9 BTU per hour                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Isolation     | Voltage 30 Volts Continuous                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Enclosure     | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| UPC           | 10612598330826 Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| The           | Allen-Bradley 1756-L64 is a ControlLogix standard controller. It has a 16 MB user memory available for data and logic and an I/O memory of 478 kb. An optional CompactFlash memory card can be used as an additional non-volatile memory of this controller. Note that the only memory card compatible with the 1756-L64 is the 128 MB 1764-CF128 model. The 1756-L64 controller can handle a maximum of 250 controller connections. It should be mentioned that the scan time for a project loaded in this controller may be s |

## 3. Product Information

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Mfr. Part Number:

1756-L64

Manufacturer: Allen-Bradley / Rockwell Automation

Description: Allen-Bradley 1756-L64 ControlLogix Logix5564 Processor, 16MB Memory

Full Description: Allen-Bradley 1756-L64 ControlLogix Logix5564 Processor with 16 Mbytes User Memory, 478 Kbytes I/O Memory Allen Bradley ControlLogix Processor Module with 478 Kilobytes I-O Memory and 16 MB User Memory Technical specifications for 1756-L64

Manufacturer Rockwell Automation

Brand Allen-Bradley

Part Number/Catalog No. 1756-L64

Series ControlLogix

Module Type Processor Module

I-O Memory 478 Kilobytes

User Memory 16 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 milliamps

Current Draw (24 Volts DC) 14 milliamps

Power Dissipation 3.5 Watts

Thermal Dissipation 11.9 BTU per hour

Isolation Voltage 30 Volts Continuous

Enclosure None

UPC 10612598330826 Description

The Allen-Bradley 1756-L64 is a ControlLogix standard controller. It has a 16 MB user memory available for data and logic and an I/O memory of 478 kb. An optional CompactFlash memory card can be used as an additional non-volatile memory of this controller. Note that the only memory card compatible with the 1756-L64 is the 128 MB 1764-CF128 model. The 1756-L64 controller can handle a maximum of 250 controller connections. It should be mentioned that the scan time for a project loaded in this controller may be slower compared to other 1756-L6x controllers loaded with the same project. It also has full support for controller redundancy.

ControlLogix 5560 controllers, like the 1756-L64 controller, have three controller tasks available and these are 100 programs/task, 32 tasks, and event tasks: all event triggers. Serial port communications available with this controller are DH-485, DF1 full/half-duplex, DF1 radio modem, ASCII, and Modbus via logic. The 1756-L64 controller also supports various communication options, particularly Ethernet/IP, Data Highway Plus, Serial Link Device, ControlNet, Remote I/O, and Third-party process and device networks.

The 1756-L64 controller has a maximum digital I/O of 128,000, which is the same with its maximum total I/O. Its maximum analog I/O is 4000. The only ControlLogix chassis compatible with this controller are 1756-A4, 1756-A7, 1756-A10, 1756-A13, and 1756-A17. It also has a user-replaceable battery but it should only be replaced with the 1756-BA2 lithium battery and only when needed. It has a vibration of 2 g at 10 to 500 Hz, a non-operating shock of 50 g, and an operating shock of 30 g.

This controller has a current draw of 1200 mA at 5.1V DC and 14 mA at 24V DC. It also has a continuous isolation voltage of 30V (basic insulation type) and has been type tested for 60 s at 720V DC. The 1756-L64 has a power dissipation of 3.5 W and a thermal dissipation of 11.9 BTU/hr. The operating temperature of this controller ranges from 0 to 60 Degrees Celsius, while its storage temperature is from -40 to 85 Degrees Celsius. The 1756-L64 has a maximum surrounding air temperature of 60 Degrees Celsius.

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