

Allen-Bradley 1756 Series Service Manual

1756-L81EK

1. Description

Mfr. Part Number:

2. Specifications

Specification	Value
Manufacturer	Rockwell Automation
Brand	Allen-Bradley
Part	Number/Catalog No. 1756-L81EK
Series	ControlLogix
Module	Type ControlLogix Controller
I-O	Memory N/A
User	Memory 3 MB
Maximum	I-O 128,000
Maximum	Analog I-O 4,000
Maximum	Digital I-O 128,000
Current	Draw (1.2 Volts DC) 5.0 Miliamperes
Current	Draw (5.1 Volts) 1.20 Miliamperes
Power	Dissipation 6.2 Watts
Thermal	Dissipation 21.2 BTU per hour
Isolation	Voltage 50 Volts Continuous
Enclosure	None (Open-Style) Description
The	1756-L81EK controller is a ControlLogix 5580 series controller manufactured by Allen-Bradley. In the range of products intended for industrial automation, Allen-Bradley has always made high-quality controllers like the 1756-L81EK controller which are a central component in any modern industrial plant. Allen-Bradley controllers are made to be reliable and to provide the users with as much speed and memory capacity as possible, as well as with wider integration and communication capabilities with other machine s

3. Product Information

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Mfr. Part Number:

1756-L81EK

Manufacturer: Allen-Bradley / Rockwell Automation

Description: Allen-Bradley 1756-L81EK ControlLogix Logix5580 Processor, 3MB, EtherNet/USB

Full Description: Allen Bradley 1756-L81EK ControlLogix5580 Logix 5580 Controller, 3MB User Memory, USB 2.0 Port (12 Mbps), 1GB Ethernet Port, 60 EtherNet/IP Devices, 32 Tasks, 1000 Programs/Task, 4 Character Alpha/Numeric Display, Supported in Studio 5000 Automation Engineering & Design Environment, Conformally Coated The Allen-Bradley/Rockwell Automation 1756-L81EK controller is a ControlLogix 5580 series standard controller. It can handle up to 32 tasks simultaneously with up to 1000 programs per task. The 1756-L81EK standard controller can communicate through several different networks such as the Synchlink, Remote I/O, DeviceNet, ControlNet, Data Highway Plus, and the Ethernet/IP networks, and Technical specifications for 1756-L81EK

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The Allen-Bradley 1756-L81EK ControlLogix 5580 controller has 2 communication ports which are the USB 2.0 and Ethernet/IP ports. The device is able to communicate over the EtherNet/IP, DeviceNet, ControlNet, Remote I/O, Data Highway Plus, or the SynchLink networks. It supports 32 tasks with 1000 programs for each task. The 1756-L81EK controller, like all ControlLogix controllers, supports electronic keying protection for the cross-checking of the configured and installed hardware in the control system. On the front side of the controller, there is an "OK LED" indicator that glows solid green when the device operates normally, and it is red when the device is performing power-up diagnostics or when the unit is powered up but inoperable. The "RUN LED" shows the current mode of the controller and it glows green in normal operation mode.