

Allen-Bradley 1769 Series Service Manual

1769-L30ERM

1. Description

The Allen-Bradley 1769-L30ERM is a CompactLogix packaged controller from the 5370 CompactLogix family. This controller has embedded 1MB memory, Two (2) Ethernet communication ports, and One (1) USB port. It supports up to Eight (8) Compact I/O modules and supports Three (3) expansion banks. This controller supports up to Four (4) motion axes. Technical specifications for 1769-L30ERM

2. Specifications

Specification	Value
Manufacturer	Rockwell Automation / Allen-Bradley
Brand	Allen-Bradley
Part	Number/Catalog No. 1769-L30ERM
Product	Line CompactLogix
Product	Type: Programmable Automation Controller
Module	Type Processor Module
Communication	Ethernet
Communication	ports: 2 Ethernet I/P; 1 USB
Motion	Control over Ethernet I/P: Included
Integrated	Motion: 4 Axes
Memory	1MB
Shipping	Weight 3 lbs.
Maximum	number of I/O modules supported: 8 Modules
Shipping	Dimensions 11 x 8 x 6 in.
Maximum	number of I/O banks supported: 3 banks
Series	A and B
Power	supply distance rating: 4
Replacement	Terminal Block Part Number 1769-RTBN18
Vibration:	Operating: 10 to 500 Hz, 5G, 0.030 in. peak-to-peak
Operating	Temperature: 0° to +60°C (+32° to +140°F)
Wire	Type Copper-90 degrees Celsius
Wire	Size (Solid) 22-16 AWG
Wire	Size (Stranded) 22-16 AWG
Programming	Language: Relay ladder, Structured Text, Function block, SFC
Power	Dissipation 4.5 Watts
User	Memory: 1 MB
UPC	10885630167081
Non-Volatile	memory: 1784-SD1 card with 1 G

3. Product Information

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Manufacturer Rockwell Automation / Allen-Bradley

Brand Allen-Bradley

Part Number/Catalog No. 1769-L30ERM

Product Line CompactLogix

Product Type: Programmable Automation Controller

Module Type Processor Module

Communication Ethernet

Communication ports: 2 Ethernet I/P; 1 USB

Motion Control over Ethernet I/P: Included

Integrated Motion: 4 Axes

Memory 1MB

Shipping Weight 3 lbs.

Maximum number of I/O modules supported: 8 Modules

Shipping Dimensions 11 x 8 x 6 in.

Maximum number of I/O banks supported: 3 banks

Series A and B

Power supply distance rating: 4

Replacement Terminal Block Part Number 1769-RTBN18

Vibration: Operating: 10 to 500 Hz, 5G, 0.030 in. peak-to-peak

Operating Temperature: 0° to +60°C (+32° to +140°F)

Wire Type Copper-90 degrees Celsius

Wire Size (Solid) 22-14 AWG

Wire Size (Stranded) 22-16 AWG

Programming Language: Relay ladder, Structured Text, Function block, SFC

Power Dissipation 4.5 Watts

User Memory: 1 MB

UPC 10885630167081

Non-Volatile memory: 1784-SD1 card with 1 Gb of available memory (shipped with controller) ; 1784-SD2 card with 2 Gb of available memory (available for separate ordering)

Mounting: DIN Rail; Panel Mounting

UNSPSC 32151705 Description

The Allen Bradley 1769-L30ERM is one version a CompactLogix 5370 controller that can run up to 32 tasks at a time. This module is equipped with a user memory of 1 MB and an optional nonvolatile 1784-SD1 card with 1 GB of additional memory. The controller's current draw at 5 Volts DC and at 24 Volts DC are 500 mA and 225 mA, respectively. The maximum power dissipation of the 1769-L30ERM is 4.5 W. This module is 2.17 inches wide and can be mounted on a panel or DIN rail. The Allen-Bradley 1769-L30ERM can send and receive messages on multiple networks and control any distributed Input or output. This module supports a temporary connection from your computer via a USB connection. The Ethernet/IP network provides a full suite of control services, configuration features, and data collection systems. The 1769-L30ERM supports Quality of Service (QoS) technology that allows controllers to prioritize Ethernet/IP network traffic.

The 1769-L30ERM is an Allen-Bradley product that belongs to the Programmable Automation Controller (PAC) product family. This product in particular is a 1769 CompactLogix controller that features modular features and integrated with motion control capability over Ethernet network.

This controller features a user memory that amounts to 1MB and an integrated 1Gb non-volatile memory that ships with the controller provided by the 1784-SD1 memory card. This controller is also installed with Dual Ethernet communication port, and a single USB port. The dual Ethernet port supports Linear, Ring, and Star topologies. It also functions as an integrated switch. Up to Four axes of motion control can be controlled by this controller. The module does not come with an integrated Input and Output channels however, supports a larger number of local 1769 Compact I/O modules wherein up to Eight (8) modules may be stalled. It also supports a higher number of expansion I/O banks, specifically, up to Three (3) I/O banks. For Version 21.XX and later, use Studio 5000 Logix Designer. Either instances, the controller's user programming may be programmed with IEC 61131-3 programming languages such as Relay Ladder, Sequential Function Chart (SFC), Statement List (STL) and Function Block Diagram (FBD). Mfr. Part Number:

1769-L30ERM

Manufacturer: Allen-Bradley / Rockwell Automation

Description: Allen-Bradley 1769-L30ERM CompactLogix 5370 Ethernet Controller, 1MB Memory

Full Description: Allen-Bradley 1769-L30ERM CompactLogix 5370 L3 Ethernet Processor Module, Dual Ethernet with DLR capability, 1MB Memory, 1 x USB Programming/Downloading Port, 2 x EtherNet/IP Ports, 8 I/O Expansion, 16 Ethernet IP Nodes, 4 Axis CIP motion with Kinematics function

UPC / GTIN: 10885630167081

Status: Current Product

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