CompactLogix 5370 L1 Programmable Automation Controllers

1769-L16ER-BB1B, 1769-L18ER-BB1B, 1769-L18ERM-BB1B, 1769-L19ER-BB1B

AB QUALITY **Allen-Bradley**

Features and Benefits

The CompactLogix 5370 L1 controllers combine the power of the Logix architecture with the flexibility of POINT I/O™ modules in a compact, affordable package.

Machine builders and end users can take advantage of the benefits of an Integrated Architecture system with the following features in a lower cost system:

- Ideal for small, to mid-size applications that require low axis motion and I/O point counts
- Offers support for Integrated Motion over EtherNet/IP for maximized scalability
- Provides support for Device Level Ring (DLR) network topologies to help increase network resiliency
- Removes the need for lithium batteries with built-in energy storage
- Includes up to a 2-GB Secure Digital (SD) card for fast program save and restore
- Offers a smaller form factor for maximized cabinet space
- Supports up to 2 axes Kinematics for simple articulated robotics
- Open socket capability allows support for Modbus TCP as well as devices such as printers, barcode readers and servers

CompactLogix 5370 L1 PACs offer up to 1 MB of user memory for increased storage capabilities

Expanding on the scalability of the Logix family of controllers, the CompactLogix™ 5370 L1 Programmable Automation Controllers (PACs) are designed to meet the growing need for a higher performance controller in a compact, affordable package. Offering reduced panel space, the L1 controllers truly enable you to build a high performance, more cost-effective system.

As part of the Integrated Architecture® system, the CompactLogix 5370 L1 controllers use the same programming software, network protocol and information capabilities as all Logix controllers, providing a common development environment for all control disciplines. Consistent tools and features allow users to lower engineering investment costs, ease diagnostics and troubleshooting and speed up time to market.

Integrated Motion on EtherNet/IP

The CompactLogix 5370 L1 controllers meet the needs of customers looking for performance and cost competitive motion solutions that:
- Support up to 2 axes of integrated motion
- Offer a scalable motion solution with the Kinetix® 350

Network Capabilities

Dual Ethernet ports and an integrated Ethernet switch allow support for Device Level Ring (DLR) topologies, which simplifies the integration of components in your control system. DLR connectivity helps to increase network resiliency and allows individual device replacements without compromising production. A daisy chain configuration helps reduce the number of required Ethernet switches in the control system, which can help produce a cost-effective system solution.

LISTEN. THINK. SOLVE.®

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CompactLogix 5370 L1 Controller Product Specifications

	1769-L16ER -BB1B	1769-L18ER-BB1B	1769-L18ERM-BB1B	1769-L19ER-BB1B
User memory[1]	0.375 MB	0.5 MB	0.5 MB	1 MB
Controller tasks	32	32	32	32
Programs per task	100	100	100	100
Integrated Motion	–	–	2 axis CIP motion position loop axis	–
Package Size	100mm wide x 130mm high x 105mm deep			
Certifications	cULH (Class I Division 2), KCC / UL (UL 508), ULH (Class I & II, Division 2 and Class III, Divisions 1 & 2) / ATEX, CE, C-Tick, GOST-R, Marine			
Local Expansion I/O Points[2]	80	96	96	96
Local Expansion Modules	6	8	8	8
Embedded I/O	16 digital inputs, 16 digital outputs			
Servo Drives (Position Loop CIP)	–	–	2	–
Flash Memory Card	Industrially rated and certified Secure Digital (SD) memory card (1 and 2 GB options); all controllers shipped with 1 GB card			
Ethernet I/O IP nodes	4	8	8	8
Virtual axes	100	100	100	100
Feedback only, torque, velocity, Vhz (max CIP motion drives)	–	–	8	–
Axes/ms	–	–	2	–
Kinematics support	–	–	yes	–
Software / Firmware	RSLogix 5000® v20 and RSLinx® Classic v2.59 Firmware v20.1x or later			Studio 5000 v28 and RSLinx v2.59 or later. Firmware v28.xxx or later

[1]　Check controller memory estimator to ensure there is enough memory to execute the controller program for your application.

[2]　Based on six 8 point digital modules (48 pts.) and embedded 32 points (16 digital inputs, 16 digital outputs)

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