CompactLogix™ 5370 L1 Programmable Automation Controllers

L16ER-BB1B, -L18ER-BB1B, -L18ERM-BB1B

Allen-Bradley

Features and Benefits

The CompactLogix 5370 L1 controllers combine the power of the Logix architecture with the flexibility of POINT I/O in a compact and affordable package. Ideal for small to mid-size machines, these controllers provide customers the benefits of Integrated Architecture in a lower cost system.

Machine builders and end users can build a better machine by taking advantage of the following features of these controllers:

- Ideal for applications that require low axis motion and I/O point counts
- Support for Integrated Motion on EtherNet/IP
- Support for Device Level Ring (DLR) network topologies
- Built-in energy storage eliminates the need for lithium batteries
- Support for a wide variety of granular POINT I/O modules
- Removable 1GB secure digital (SD) card for fast program save and restore
- Smaller form factor conserves space in control cabinet
- Support for 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

Reduce cost and time to market with CompactLogix 5370 L1 Programmable Automation Controllers.



Expanding on the scalability of the Logix family of controllers, the CompactLogix 5370 L1 programmable automation controllers (PAC) are designed to meet the growing need for a higher performance controller in a compact and affordable package. Offering a reduction in required panel space, the L1 controllers truly enable you to build a high performance, more cost-effective machine.

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 the cost engineering investment, ease diagnostics and troubleshooting, and speed time to market.

Integrated Motion on EtherNet/IP

The CompactLogix 5370 L1 controller meets the needs of customers looking for performance and cost competitive motion solutions.

- Supports up to 2 axes of integrated motion
- Together with the Kinetix 350, offers cost-effective, scalable motion solution

Network Capabilities

With dual Ethernet ports and an integrated Ethernet switch, these controllers now support Device Level Ring (DLR) network topologies, simplifying integration of components in your control system and reducing system cost. Deploying as a DLR provides resiliency from loss of one network connection and allows replacement of devices one at a time without stopping production. A daisy chain connection reduces the number of Ethernet switches in the control system.

LISTEN. THINK. SOLVE.®

CompactLogix 5370 L1 Controller Product Specifications

	1769-L16ER -BB1B	1769-L18ER-BB1B	1769-L18ERM-BB1B
User memory[1]	0.375 MB	0.5 MB	0.5 MB
Controller tasks	32	32	32
Programs per task	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 / Marine and GOST certifications in 2012		
Local Expansion I/O Points[2]	80	96	96
Local Expansion Modules	6	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
Virtual axes	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 V2.58 Firmware v20.1x 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)

CompactLogix, Integrated Architecture, Kinetix, RSLogix, Integrated Motion on EtherNet/IP are trademarks of Rockwell Automation, inc.
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