

Epson RC800L Controller



Built to perform, easy to use.

Ultra high performance and flexibility — powerful servo motion control for smooth motion, precise positioning and fast program execution times

Fast cycle times — intelligent servo drivers provide high acceleration, smooth motion and fast settling times to help maximize throughput

Ultimate ease of use — intuitive and feature-packed Epson RC+® development software helps create powerful solutions with a simple user interface, integrated debugger and advanced 3D simulator

Flexible control structures — Epson RC+ is ideal for creating industrial robot solutions that are standalone with a GUI creation option; PC-based with API options such as LabVIEW®; or PLC-controlled with remote fieldbus options, including Add-On Instructions (AOIs)

Accelerate the development of workcell applications — fully integrated, optional solutions include vision guidance and part feeding; Epson RC+ Solutions Platform allows for seamless expansion of third-party solutions, benefiting developers and end users

Compact and convenient — efficient form factor can be floor-, wall- or rack-mounted; all connections, as well as lockout, backup port and message display, are accessible on the front panel of controller

PC-based open architecture — allows for development online or offline, with over 500 commands to optimize runtime, recovery and error handling; easily integrates with third-party hardware and software

World-class service and support — with four decades of automation experience, Epson provides support for your automation needs through its dedicated application and service teams

Model Name		RC800L Controller	
Model Number		RC800L	
Mounting Type		Tabletop	
Robot Manipulator Control	Programming Language and Robot Control Software	Epson RC+ 8.x (a multitasking robot OS)	
	Joint Control	Up to four (4) joint simultaneous control, software AC servo control	
	Speed Control	PTP Motion: Programming in the range of 1% to 100% CP Motion: Programmable (actual value to be manually entered)	
	Acceleration/Deceleration Control	PTP Motion: Programming in the range of 1% to 100% CP Motion: Programmable (actual value to be manually entered)	
	Positioning Control	PTP (Point-to-Point)/CP (Continuous Path)	
Memory Capacity		Maximum Object Size: 4MB Point Data Area: 1,000 points (per file) Backup Variable Area: Max. 768KB (includes the memory area for the management table) Approx. 4,000 variables (depends on the size of array variable)	
External Input/Output Signals (Standard)	Standard I/O	Input: 24 Output: 16	
Communication Interface (Standard)	Ethernet	1 port (10Base-T, 100Base-TX, 1000Base-T)	
	USB	1 port (Type-B)	
Option Boards (Special Slot)	Fieldbus I/O Slave	1 channel per board, PROFINET, PROFIBUS-DP, DeviceNet®, CC-Link®, EtherNet/IP™, EtherCAT®	Maximum of 1 board allowed
Option Boards (PCI or PCIe Slots)	Fieldbus I/O Master	1 channel per board, PROFIBUS, PROFINET, DeviceNet, EtherNet/IP	Maximum of 1 board allowed
Safety Features		Low power mode/Dynamic braking/Overload detection/Torque error detection/Speed error detection/Position deviation overflow detection/Speed deviation overflow detection/Overheat detection/Fan error detection (excluding Controllers that do not have a fan)/Relay melting detection/Over voltage detection/Low AC power voltage detection/Temperature abnormality detection/CPU error detection/Memory error detection	
	Integrated Safety Board	Safety Input: 5 dual signal inputs Safety Output: 3 dual signal outputs	
Power Source		AC 200 V to 240 V/single phase 50/60 Hz	
Weight		10 kg	

Support

Customer Service
(562) 290-5920
service@robots.epson.com

Applications Support
(562) 290-5930
applications@robots.epson.com

Sales Inquiries
(562) 290-5997
info@robots.epson.com

Contact:

See the latest innovations from Epson Business Solutions at epson.com/forbusiness

Epson America, Inc.
3131 Katella Ave., Los Alamitos, CA 90720

Epson Canada Limited
185 Renfrew Drive, Markham, Ontario L3R 6G3

epson.com
epson.ca

Specifications and terms are subject to change without notice. EPSON and Epson RC+ are registered trademarks of Seiko Epson Corporation. All other product and brand names are trademarks and/or registered trademarks of their respective companies. Epson disclaims any and all rights in these marks. Copyright 2026 Epson America, Inc. CPD-71594 2/26