

Migration Solutions

MicroLogix™ 1100 and MicroLogix 1200 Controllers to Micro870™ Controller

Identify, Mitigate and Eliminate the Risks of Automation Obsolescence

In today's economy it is necessary to have migration solutions that help you to achieve increased productivity and lessen your risk of maintaining your legacy equipment. You need to work with a supplier that has the product, service, and industry knowledge to partner with you on an upgrade strategy that will help you maximize your competitive advantage.

Rockwell Automation and its partners will work with you to outline a plan that fits your application needs and long-term goals. We can help you migrate all at once or in phases, at the pace that is comfortable for you and fits your budget.

With your goals in mind, Rockwell Automation has developed a migration strategy that will allow you to quickly and easily migrate from MicroLogix™ 1100 and MicroLogix 1200 controllers to the Micro870™ controller. This approach will lower conversion time and engineering costs.

Product Life Cycle

Use the [Product Lifecycle Status](#) search tool on the web to find specific lifecycle information by catalog number.



- ACTIVE: Most current offering within a product category.
- ACTIVE MATURE: Product is fully supported, but a new product or family exists. Gain value by migrating.
- END OF LIFE: Discontinued date announced — actively execute migrations and last time buys. Product generally orderable until the discontinued date¹.
- DISCONTINUED: New product no longer manufactured or procured². Repair/exchange services may be available.

¹ Outages on specific items may occur prior to the Discontinued date.
² Limited stock may be available in run-out mode, regionally.



MicroLogix 1100 Controller



MicroLogix 1200 Controller



Micro870 Controller

LISTEN.
THINK.
SOLVE.

Why Upgrade or Migrate?

The MicroLogix™ 1100 and MicroLogix 1200 controllers have been valuable products in our Allen-Bradley controller portfolio for over two decades. Along with industry-leading reliability for the products, protecting our customers' automation investments is why manufacturers have selected over 2 million MicroLogix controllers to run their industrial processes.

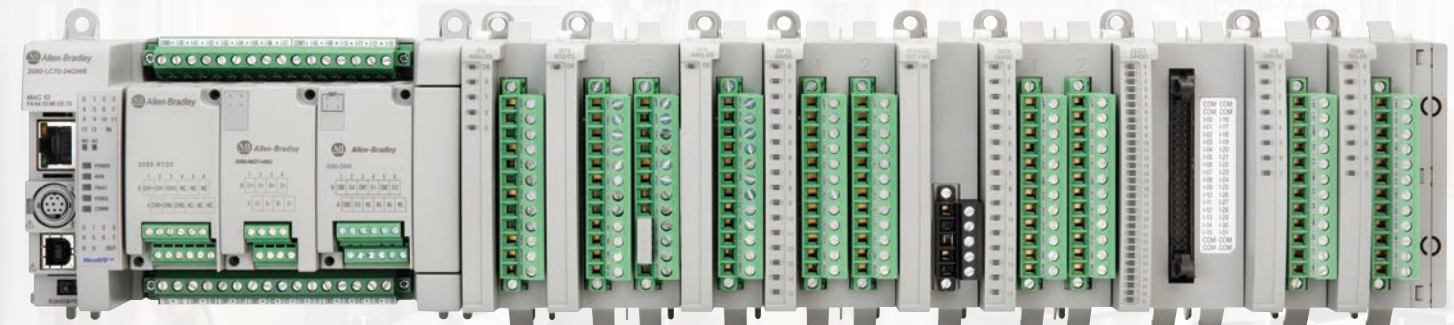
As market needs of industry and application requirements have evolved, and as available technology improved, we have introduced the Micro800® controller platform with expanded capabilities. This newer control system offers greater features and superior performance.

Designed for large standalone machine applications, the Micro870™ controller offers a cost-effective and customizable solution to help machine builders reduce development time and improve user program readability. As the latest expandable and powerful controller within the Micro800 family, the Micro870 controller aids designers to develop flexible and configurable machine design, and improve productivity with easy network connectivity at the convenience of a single programming software.

Discover the value of the Micro870 controller today! Begin your modernization journey with Rockwell Automation as your partner.

Micro870 Controller Advantages

- Meet operational needs by scaling machine with support for up to eight expansion I/O modules and 304 digital I/O points
- Program devices and connect to HMI effortlessly through EtherNet/IP™
- Control drives and communicate to other controllers with ease using symbolic addressing with client messaging
- Shorten machine development time with up to 280 KB memory size and support for up to 20,000 programming steps
- Reduce wiring time with removable terminal blocks
- Increased flexibility on a common controller platform with Micro800 plug-in concept
- Connected Components Workbench™ software is one programming and design environment for micro controller, HMI, drive and other devices



Micro870 Controller with Expansion I/O

MicroLogix™ 1100 and MicroLogix 1200 Controllers Compared to Micro870™ Controller

Features	MicroLogix 1100 Controller	MicroLogix 1200 Controller	Micro870 Controller
Memory (in user words)			
Memory (user program/user data)	4 KB / 4 KB	4 KB / 2 KB	20 K Program Steps / 280 KB
Non-volatile Program and Data	Battery back-up SRAM	Flash (No Battery)	FRAM (No Battery)
Online Editing	Yes	N/A	Run Mode Change
Inputs / Outputs			
Embedded Digital I/O, max	16	40	24
Embedded Analog I/O	Two 0 ... 10V inputs on all controllers	N/A	Optional with 2080-IF2
Local Expansion I/O, max	144	96	304
Thermocouple/RTD	Expansion I/O	Expansion I/O	Plug-in modules, Expansion I/O
Added Functionality			
Trim Potentiometers	2 (digital)	2	Yes, with PID AutoTune
PID	Yes	Yes	Yes, with PID AutoTune
High Speed Counters (embedded)	1 @ 40 kHz	1 @ 20 kHz	Up to 4 @ 100 kHz
Motion: PTO/PWM Support	2 @ 40 kHz	1 @ 20 kHz	2 @ 100 kHz
Real-Time Clock	Yes	Optional with 1762-RTC	Optional with 2080-MEMBAK-RTC2
Recipe Storage	Uses up to 64 KB data logging memory	N/A	N/A
Data Logging	128 KB	N/A	N/A
Floating Point Math	Yes	Yes	32 bit and 64 bit

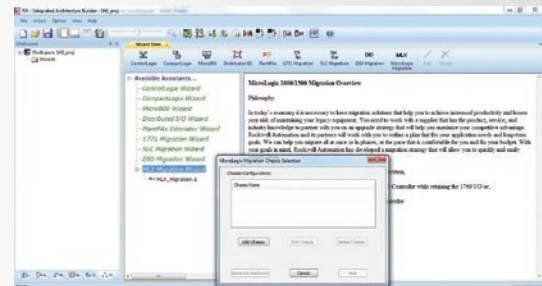
Features	MicroLogix 1100 Controller	MicroLogix 1200 Controller	Micro870 Controller
Operating Power			
120/240V AC	Yes	Yes	Via power supply module, 2080-PS120-240VAC
24V DC	Yes	Yes	Yes
Communication			
Communication Ports	RS-232/RS-485 serial port, Ethernet	RS-232 serial port	RS-232/RS-485 serial port, Ethernet, USB
EtherNet/IP™	Yes	With 1761-NET-ENI or 1761-NET-ENIW	Yes
DH-485	Network with 1763-NC01	Network with 1761-NET-AIC	N/A
SCADA RTU - DF1 Half-duplex Slave	Yes	Yes	N/A
SCADA RTU – Modbus RTU Slave	Yes	Yes	Yes
SCADA RTU – Modbus RTU Master	Yes	Yes	Yes
Modbus TCP	N/A	N/A	Yes
ASCII – Read/Write	Yes	Yes	Yes
CIP Serial	N/A	N/A	Yes

Supporting Your Migration

With industry knowledge and worldwide service and support, Rockwell Automation will collaborate with you to help ensure a smooth transition from your MicroLogix™ controllers to the flexible and scalable Micro800® controller platform. Here's how:

STEP 1: Plan Your Migration

Once you planned your overall migration approach, let the [Integrated Architecture® Builder \(IAB\)](#) help plan the details. The MicroLogix Migration Wizard embedded in IAB will step you through the system configuration process, helping you to decide on which Micro800 controller to migrate to. The wizard will propose the additional Micro800 plug-in modules to match the I/O size and the type of MicroLogix controller.



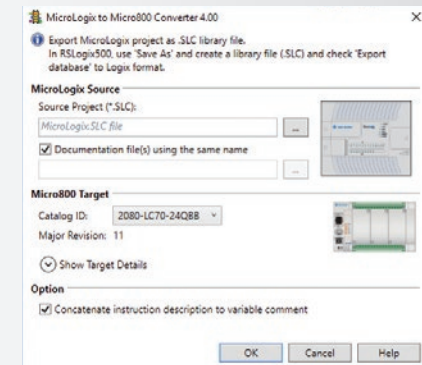
Tools: Integrated Architecture Builder (IAB), Popular Configuration Drawings, MicroLogix 1000 to Micro800 Migration Guide Publication 2080-RM002.

STEP 2: Application Code Conversion

Help save time and engineering resources by using the MicroLogix to Micro800 Converter Tool. This tool helps you to convert your existing RSLogix 500® program to Connected Components Workbench™ project.

The MicroLogix to Micro800 Converter Tool Version 4.00 is available in Connected Components Workbench™ Software Version 11.00 or later.

Tools: Connected Components Workbench Software Version 11.



For More Information

To better understand your options, contact your local authorized Allen-Bradley distributor or Rockwell Automation sales office or visit: rok.auto/productstatus and rok.auto/modernization

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Power, Control and Information Solutions Headquarters

Americas: Rockwell Automation, 1201 South Second Street, Milwaukee, WI 53204-2496 USA, Tel: (1) 414.382.2000, Fax: (1) 414.382.4444
Europe/Middle East/Africa: Rockwell Automation NV, Pegasus Park, De Kleelaan 12a, 1831 Diegem, Belgium, Tel: (32) 2 663 0600, Fax: (32) 2 663 0640
Asia Pacific: Rockwell Automation, Level 14, Core F, Cyberport 3, 100 Cyberport Road, Hong Kong, Tel: (852) 2887 4788, Fax: (852) 2508 1846

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