

MicroLogix™ 1000 Controller to Micro800® Controller

Why Upgrade or Migrate

While MicroLogix 1000 controller has been a valuable part of our portfolio for the past 20 years, this product will no longer be available for sale after June 2017. Now is the time to migrate to Micro800 controllers.

As the latest controller platform in the Micro PLC space, the Micro800 controllers offer many new features and benefits designed to help improve your machine design.

Micro800 Controllers Features and Benefits

- Increased flexibility on a common controller platform with Micro800 plug-in concept
- Ease of connection to a network using Micro800 with built-in RS232/485 serial port and Ethernet port
- Reduced development time and cost through reuse of codes using User-Defined Function Block. Symbolic addressing for variables improves readability of user program
- Connected Components Workbench™ software is one programming and design environment for micro controller, HMI, drive and other devices



MicroLogix 1000 Controller



Micro800 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 1000 controller to Micro800 controller platform. This approach will lower conversion time and engineering costs.

*ACTIVE: Most current offering within a product category.

ACTIVE MATURE: Product is fully supported, but a newer 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 date.¹

DISCONTINUED: New product no longer manufactured or procured.² 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.



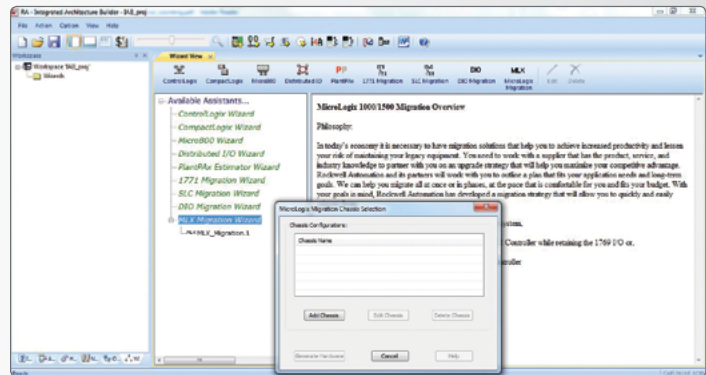
Supporting Your Migration

With industry knowledge and worldwide service and support, Rockwell Automation will collaborate with you to help ensure a smooth transition from your MicroLogix 1000 controllers to the flexible and scalable Micro800 platform. Here's how:

STEP 1: Plan your Migration

Once you planned your overall migration approach, use [Integrated Architecture Builder \(IAB\)](#) to 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.

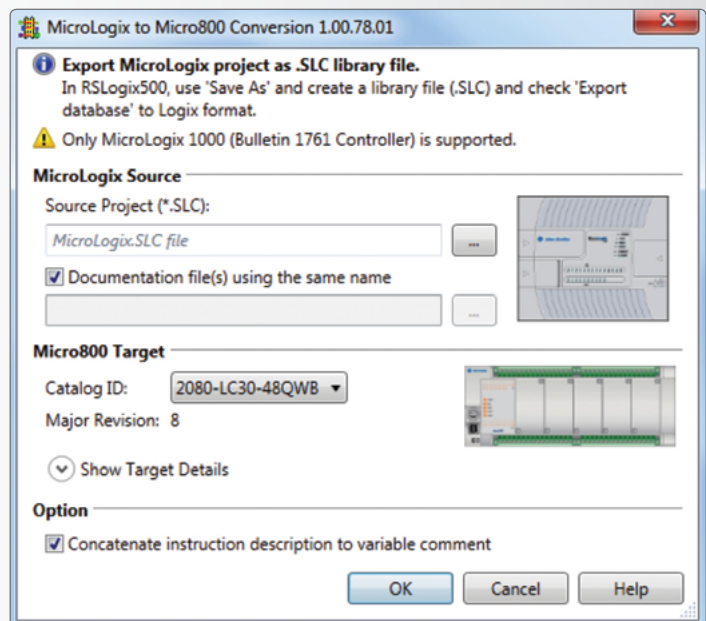


STEP 2: Application Code Conversion

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 is launched in Connected Components Workbench software. Download this tool, which is a product add-on for Connected Components Workbench software, from the [Product Compatibility and Download Center](#).

Tools: Connected Components Workbench Software Release 8 and MicroLogix to Micro800 Converter Tool.



MicroLogix 1000 Controller Compared to Micro800 Controller

Features	MicroLogix 1000 Controller	Micro820 Controller	Micro830 Controller
Memory (in user words)			
Memory (user program / user data)	1 KB combined (preconfigured)	10 K / 20 KB	4 K / 8 KB (10/16 point), 10 K / 20 KB (24/48 point)
Memory Module (for program backup and transport)	Through hand-held programmer	Via microSD card	Via plug-in module, 2080-MEMBAK-RTC
Run Mode Change	N/A	Yes ¹	Yes ¹
Inputs/ Outputs			
Embedded Digital I/O, max	32	19	48
Embedded Analog I/O	5	5	Via plug-in modules
Thermocouple / RTD	N/A	Via plug-in module, 2080-RTD2, 2080-TC2	Via plug-in module, 2080-RTD2, 2080-TC2
Networked Expansion I/O, max	N/A	Via plug-in module, 2080-DNET20, up to 20 nodes for I/O operation	Via plug-in module, 2080-DNET20, up to 20 nodes for I/O operation
Added Functionality			
Trim Potentiometers	N/A	Via plug-in module, 2080-TRIMPOT6	Via plug-in module, 2080-TRIMPOT6
PID	N/A	Yes	Yes
High Speed Counters (embedded)	One @ 6.6 kHz	Via plug-in module, 2080-MOT-HSC	Up to six @ 100 kHz
Motion: PTO / PWM Support	N/A	One PWM @ 5 kHz	Up to three PTO/PWM @ 100 kHz
Real-Time Clock	N/A	Embedded	Via plug-in module, 2080-MEMBAK-RTC
Recipe Storage	N/A	Via microSD card	N/A
Data Logging	N/A	Via microSD card	N/A
Floating Point Math	N/A	32 bit and 64 bit	32 bit and 64 bit
Operating Power			
120/240V AC	Yes	Via power supply module, 2080-PS120-240VAC	Via power supply module, 2080-PS120-240VAC
24V DC	Yes	Yes	Yes
Communication			
Communication Ports	RS323 serial port	RS232/RS485 serial port Ethernet port	RS232/RS485 serial port
EtherNet/IP™	With 1761-NET-ENI or 1761-NET-ENIW	Yes	N/A
DH-485 ²	Network with 1761-NET-AIC	N/A	N/A
SCADA RTU - DF1 Half-duplex Slave ²	Yes	N/A	N/A
SCADA RTU - Modbus RTU Slave	N/A	Yes	Yes
SCADA RTU - Modbus RTU Master	N/A	Yes	Yes
Modbus TCP	N/A	Yes	N/A
ASCII - Read/Write	N/A	Yes	Yes
CIP Serial	N/A	Yes	Yes
Agency Certifications			
CE, RCM, EAC, KC, UL, and C-UL (including Class 1, Division 2 Hazardous Locations)	Yes	Yes	Yes

1 – Requires Connected Components Workbench Developer Edition Release 8 and above and Micro800 Controller Firmware 8 and above.

2 – If application requires DH-485 or DF1 communication protocol, we recommend to migrate MicroLogix 1000 to MicroLogix 1100 or MicroLogix 1200.

Allen-Bradley, Connected Components Workbench, Listen. Think. Solve., Micro800, MicroLogix, RSLogix 500 and Rockwell Automation are trademarks of Rockwell Automation, Inc. Trademarks not belonging to Rockwell Automation are property of their respective companies.

www.rockwellautomation.com

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 Kleetlaan 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