

# BOOST PRODUCTIVITY WITH A SCALABLE MICRO CONTROL SOLUTION

Migrate from  
MicroLogix, Pico,  
PicoGFX controllers  
to Micro800 controllers



**Rockwell  
Automation**



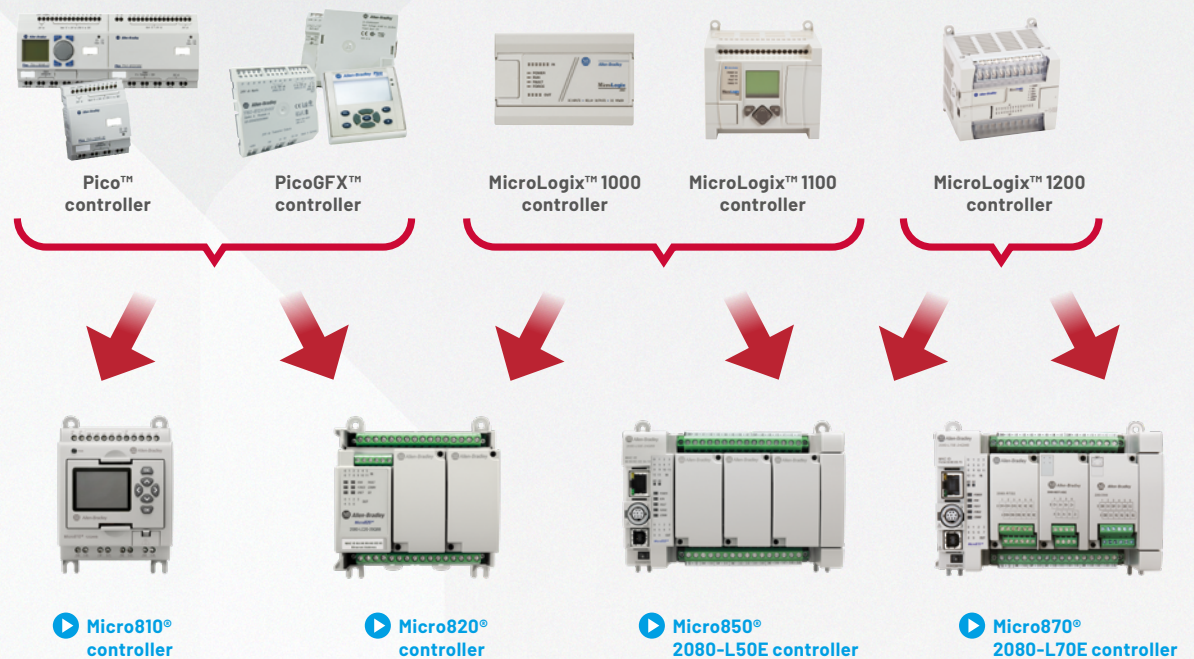
# Meet operational needs with the right controller

The MicroLogix™ 1000, MicroLogix 1100, MicroLogix 1200, Pico™, and PicoGFX™ controllers have been valuable products in our Allen-Bradley® controller portfolio for over two decades. Now, these legacy controllers are discontinued and no longer available for sale.

Rockwell Automation understands that your controllers are critical assets in your automation system. As market needs and industry requirements continue to evolve, modern technologies and standards that can enhance productivity and performance are essential to stay competitive. We support this evolution by providing better and newer products to meet your application requirements. We recommend modernizing to the Micro800™ programmable logic controller (PLC) family.

The Micro800 control system offers a cost-effective and robust Micro Control solution for small to large standalone applications. Built with customization and flexibility in mind, the controllers offer extended functionalities through expansion I/O and plug-in modules options. Coupled with the use of integrated programming software across the control system, machine builders can achieve reduced design and development time. Gain smart control and drive operational efficiency by migrating to the scalable Micro800 control system.

We will help you meet your long-term goals by proactively planning and managing your transition every step of the way to help you get the highest possible return on your automation investment.



## Product Lifecycle



- **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 date<sup>1</sup>.
- **DISCONTINUED:** Product is no longer manufactured or procured<sup>2</sup>. Repair/exchange services may be available.

<sup>1</sup> Outages on specific items may occur prior to the Discontinued date.

<sup>2</sup> Limited stock may be available in run-out mode, regionally.



# Enable smart machines with Micro800 controllers

- Scale the controller to meet your application needs and extend functionality without increasing the controller footprint, with Micro800 plug-in modules
- Experience easy integration with the Class 1 implicit messaging capability in Micro850® and Micro870® Lx0E controllers for PowerFlex® 520 series and Kinetix® 5100 drives
- Reduce engineering time and effort to integrate PowerFlex 520 series and Kinetix 5100 drives to Micro800 controllers using pre-defined tags and with PCCC address mapping to communicate with MicroLogix controllers
- Reuse code with Logix Theme via copy/paste between IEC and Studio 5000 Logix Designer® programming
- Shorten design time with the code modularity of user-defined function blocks (UDFB), similar to Add-On Instructions in Studio 5000 Logix Designer application
- Program your controllers with the option of three programming languages (Ladder Diagram (LD), Function Block Diagram (FBD) and Structured Text (ST))
- Save development time by referencing Micro800 tag names to PanelView™ 800 tags directly using Connected Components Workbench™ software, which provides controller programming and simulation, device configuration and visualization with Human Machine Interface (HMI) editor

▶ **Customize your control system with [Micro800 controllers](#)**



**Discover how you can scale your control system for performance, memory and I/O. Watch now.**

Meet operational needs with the right controller  
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**Enable smart machines with Micro800 controllers**  
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Develop your modernization plan  
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Simplify migration with useful tools and resources  
PG 5

Transform your business with Micro800 controllers  
PG 6



# Develop your **modernization plan**

You can execute the modernization yourself or partner with Rockwell Automation to help assess, plan and execute the best modernization strategy based on your business outcomes and needs.

## **Modernization resources from Rockwell Automation**

Our [LifecycleIQ™ Services](#) provide modernization and migration engineering support with factory-trained field service professionals to provide on-site assessments, modernization planning, and startup and commissioning of your modernized control architecture. From project management to startup, we will help define and implement an effective modernization strategy that can help optimize your operations. Learn more about our [Modernization Services](#).

## **Recognized System Integrator partners**

Our [PartnerNetwork™ program](#) provides an integrated team of engineering specialists and suppliers who are leaders in the automation and manufacturing industry. They can help to simplify implementation with effective products and solutions to accelerate the return on your investment.

## **Do It Yourself**

If you prefer to modernize from MicroLogix, Pico or PicoGFX controllers to Micro800 controllers without assistance, Rockwell Automation provides several tools and resources that can help you plan and modernize with as little disruption as possible. Learn more about the available [Migration Tools](#).

To better understand your options, contact your local authorized [Allen-Bradley distributor](#) or [Rockwell Automation sales office](#), or visit [rok.auto/modernization](http://rok.auto/modernization).

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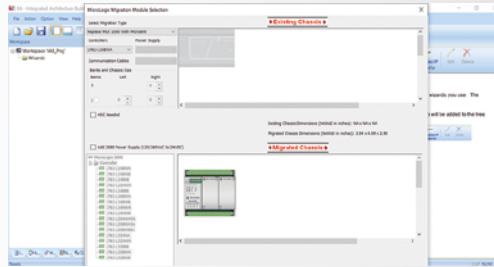
# Simplify migration with useful tools and resources

## MicroLogix controllers to Micro800 controllers

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

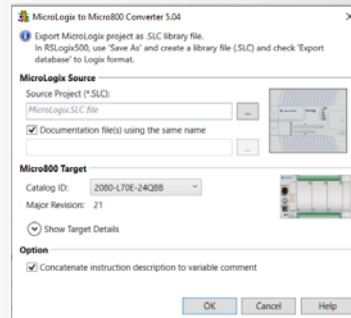
### STEP 1: Plan your migration

Once you have your overall migration approach, use the [Integrated Architecture® Builder \(IAB\)](#) tool to help plan the details. The MicroLogix migration wizard embedded in IAB will guide you through the system configuration process, helping you to decide on the components you prefer to keep, reuse or replace.



### STEP 2: Application code conversion

Save time and engineering resources by using the conversion utility in the RSLogix™ Project Migrator tool. This tool converts your existing RSLogix 500® program to a Logix project, making the conversion simpler and more cost-effective. The Project Migrator tool is a product add-on for the Studio 5000® application that can be downloaded from the [Product Compatibility and Download Center \(PCDC\)](#).



See the [MicroLogix Controllers to Micro800 Controllers Migration Guide, publication 2080-RM002](#), for detailed information on how to select the right Micro800 controller and how to convert your MicroLogix programs to work with the Micro800 controller.

## Pico and PicoGFX controllers to Micro800 controllers

The Micro800 family shares a programming environment, accessories and plug-ins that allow machine builders to customize the controller for specific applications. When selecting a Micro800 controller, consider the differences in functionalities and specifications between the legacy controllers and the newer Micro800 controllers.

The [Pico and PicoGFX Controllers to Micro800 Controllers Migration Guide, publication 2080-RM004](#), will help you plan your overall migration approach. Leverage this resource to identify the suitable controller to convert to and determine the additional Micro800 plug-in modules to match the I/O size and the type of Pico controller.

### Other self-service tools

- The [Installed Base Evaluation™ \(IBE®\)](#) service provides a thorough analysis of your critical plant assets and their condition. This site-delivered service provides detailed reports by site, area, line, machine, and panel.
- The [ProposalWorks™ proposal builder](#) tool helps you create bill of materials (BOM), request for quotes (RFQ) and proposals for your automation projects directly from your computer. This tool has more than 1,800 configurators and an easy-to-use search capability to find the right products to meet your application requirements.



# Transform your business with Micro800 controllers

Features	MicroLogix™ 1000 controller	MicroLogix™ 1100 controller	MicroLogix™ 1200 controller	Pico™ controller	PicoGFX™ controller
Embedded digital I/O, max	20	16	40	20	16
Digital I/O, max	20	36	40	40	36
Embedded analog I/O	5	Two 0...10V inputs on all controllers	N/A	Two analog inputs	Via GFX I/O module
Thermocouple/RTD I/O	N/A	Expansion I/O		N/A	
Local expansion I/O, points max		144	96		
Networked expansion I/O, max	N/A				
120/240V AC (operating power)	Yes				
EtherNet/IP™	Via 1761-NET-ENI or 1761-NET-ENIW	Yes	Via 1761-NET-ENI or 1761-NET-ENIW	N/A	
DH-485	Via 1761-NET-AIC	Via 1763-NC01	Via 1761-NET-AIC		
DeviceNet®	Via 1761-NET-AIC			As slave (via 1760-DNET)	
SCADA RTU - DF1 half-duplex slave	Yes			No	
SCADA RTU - Modbus RTU master/slave	N/A	Yes		N/A	
Modbus TCP		N/A			
ASCII - Read/write		Yes			
CIP™ Serial		N/A			

Micro810® controller	Micro820® controller	Micro850® 2080-L50E controller	Micro870® 2080-L70E controller
12	19	48	24
12	35	192	304
Four analog inputs	One analog output, four analog inputs	Optional with 2080-IF2	
N/A	Via plug-in modules, 2080-RTD2 and 2080-TC2	Plug-in modules, expansion I/O	
	N/A	128	256
	Via plug-in module, 2080-DNET20, up to 20 nodes for I/O operation	Class 1 implicit messaging, eight nodes	
Yes	Via power supply module, 2080-PS120-240VAC		
No	Yes	Yes	
		N/A	
N/A	Via plug-in module, 2080-DNET20, up to 20 nodes for I/O operation		
No		Yes	
N/A	Yes		




▶ Visit the [Micro800 Controllers Technical Documentation](#) webpage to access Micro800 specifications, installation instructions, user manuals, product certifications, and more.



## LEARN MORE

- ▶ Build smarter machines with a [Micro Control System](#)
- ▶ Customize your control system with [Micro800 controllers](#)
- ▶ Simplify standalone machine development with [Connected Components Workbench software](#)
- ▶ Get the right expertise at the right time at every stage of your smart manufacturing journey with [LifecycleIQ services](#)
- ▶ Ease system configuration with [Micro800 controller tutorials](#)
- ▶ Reduce design time and effort with [Connected Components Workbench software tutorials](#)

Rockwell Automation recognizes that some of the terms that are currently used in our industry and in this publication are not in alignment with the movement toward inclusive language in technology. We are proactively collaborating with industry peers to find alternatives to such terms and making changes to our products and content. Please excuse the use of such terms in our content while we implement these changes.

Connect with us.    

[rockwellautomation.com](https://rockwellautomation.com)

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