

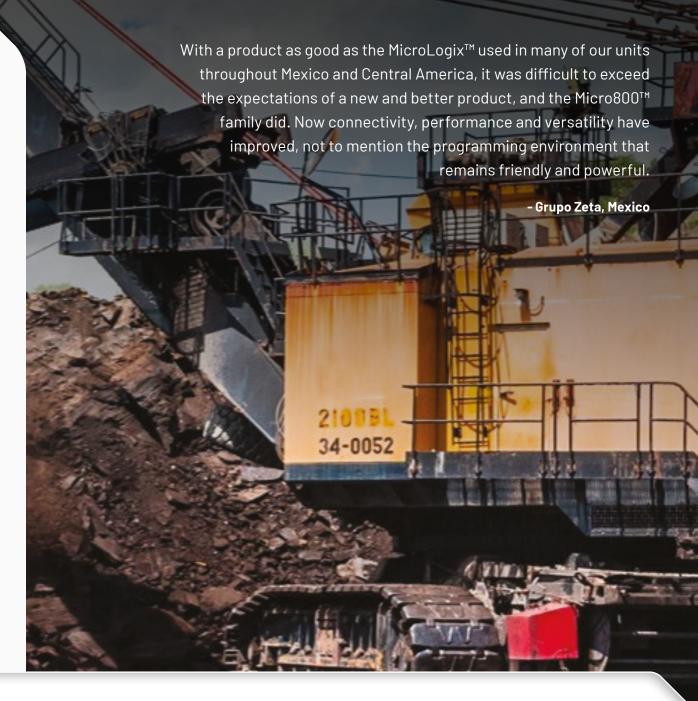
Customize for your application needs

Make your machines smarter and increase speed to market with the Allen-Bradley® Micro800™ programmable logic controller (PLC) family.

The Micro800 controller platform offers a scalable and robust Micro Control solution for small to large standalone applications. Available in different form factors, these controllers are designed and built with customization and flexibility in mind. You can buy only the functionality you need and use plug-in modules to match your application requirements.

Our Micro800 control system with Connected Components Workbench™ software can help reduce machine design time and maximize productivity.

Start smart and drive operational efficiency today.



Achieve results

Optimize operational productivity

- Reduce controller footprint by using plug-in modules to expand controller functionality
- Achieve operations and hardware cost efficiency by scaling the machine with support up to eight expansion I/O modules and 304 digital I/O points
- Produce reliable closed loop control systems with embedded proportional integral derivative (PID) instructions and floating point calculations
- Reduce unplanned downtime with performance information from smart devices connected to a Micro800 controller and relay this information over EtherNet/IP™ to the enterprise

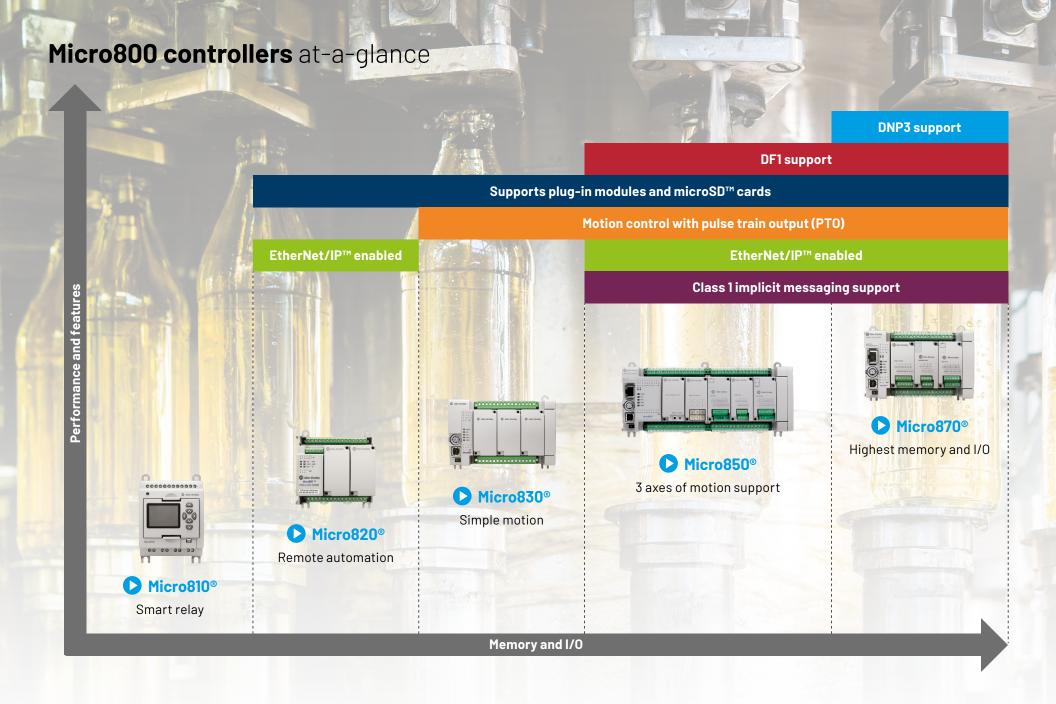
Simplify engineering and installation

- Ease development and create a smart Micro800 control system using Connected Components Workbench software, including visualization and safety
- Accelerate deployment time with modular programming across machine models and configurations using user-defined functions (UDFs), user-defined function blocks (UDFBs) and sample application code
- Reduce programming time in Logix Theme environment by reusing code from Studio 5000 Logix Designer® and support for up to 20,000 programming steps with up to 280 KB memory size
- · Shorten wiring time with removable terminal blocks
- Ease integration of PowerFlex® 520 series and Kinetix® 5100 drives to Micro800 controllers over EtherNet/IP with pre-defined tags available in Connected Components Workbench software version 21 or later

Connect controllers conveniently

- Control drives and communicate to other controllers with ease using symbolic addressing with client messaging
- Enhance usability with direct application upload or download when connected to PanelView™ 800 graphic terminals





Select a Micro800 controller

	Micro810®	Micro820®	Micro830°				Micro850°		Micro870®
Attribute	oute			O do design of the second of t					
Embedded digital I/O points	12	19	10	16	24	48	24	48	24
Maximum digital I/O	12	35	26	32	48	88	132	192	304
Communication options and protocols	USB programming port (with adapter)	 USB programming port (with 2080-REMLCD) CIP™ Serial, DF1, Modbus RTU, ASCII EtherNet/IP™, Modbus TCP 	USB programming port CIP Serial, DF1, Modbus RTU, ASCII			TU,	USB programming port CIP Serial, DF1, Modbus RTU, ASCII EtherNet/IP, Modbus TCP		 USB programming port CIP Serial, DF1, Modbus RTU, ASCII EtherNet/IP, Modbus TCP, DNP3¹
Class 1 implicit messaging ²	-	-					Up to eight Ethernet nodesSupported with firmware revision 21.011 or later		
High-speed counter (HSC) input	\-\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	100 kHz speed HSC inputs on 24V DC models							
Motion support	- 1		Up to three axes with PTO						Up to two axes with PTO
microSD™ use for program transfer, datalog and recipe management	-	Embedded slot	Supports card						
Software	Connected Components Workbench™ software								

¹DNP3 is supported with the 2080-L70E-xxxxN controllers.

See <u>Micro800 Programmable Controllers Family Selection Guide</u> (publication 2080-SG001) for more details.

²Supported only with the 2080-Lx0E controllers.

Scale and customize your control system architecture

Micro800 expansion I/O modules

- Ease installation, wiring and maintenance with removable terminal blocks
- Save space with high-density digital and analog I/O
- Gain temperature control with high accuracy RTD and thermocouple module
- Minimize downtime with real-time diagnostic data from sensors and actuators, made available through the wide range of Micro800 I/O and communications options



Micro800 plug-in modules

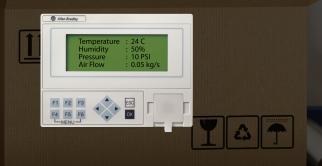
- Extend the digital and analog I/O functionality without increasing the controller footprint
- Increase communication functionality
- Achieve tighter integration by adding enhanced capabilities using the expertise of Technology Partners
- Add on to Micro820°, Micro830°, Micro850°, and Micro870° controllers

Remote LCD, compatible with Micro820 controller

- Gain visualization and control using four or eight lines of ASCII text and a tactile keypad
- Program and debug controller with ease by uploading/downloading program using the embedded USB port
- Ease programming with system menu in multiple languages
- Reduce installation time and effort with option for front panel and DIN rail mounting



Discover complementary products from our Technology Partners



Program your controllers with Connected Components Workbench software

Program

- Leverage the latest design technology that is optimized for compatibility with Micro850 and Micro870 controller catalogs, 2080-Lx0E
- Program in your preferred environment by switching between default IEC and Logix Theme easily
- Reduce operational costs by making machines more flexible and smart, enabled by the robust Micro800 controller programming to reduce mechanical setup times
- Reduce programming time with Filter and Quick Declaration features in the Global and Local Variable data grid
- Save engineering time with direct copy and paste from Studio 5000 Logix Designer in Logix Theme environment
- Ease programming through direct access to predefined tags for PowerFlex 520 series and Kinetix 5100 drives
- Increase efficiency with the faster data transfer rate and enhanced Run Mode Change (RMC) capabilities
- Increase system security with password set/verify and user project encryption/decryption

Simulate

- Experience digital engineering and programming without hardware
- Develop and test application code in a controlled environment using the Micro800 Simulator
- Boost productivity with remote communication validation by connecting EtherNet/IP devices to the Micro800 Simulator

Configure

- Reduce development time with a common project for all devices
- Ease configuration with a wide range of communication options and protocols: USB programming port, non-isolated Serial port (RS-232 and RS-485), Ethernet port, EtherNet/IP, DNP3, and DF1
- Update device firmware from project organizer without ControlFLASH™

Visualize

- Integrate a PanelView 800 graphic terminal application with a Micro800 controller using DesignStation
- Save time by referencing Micro800 controller variables to Human Machine Interface (HMI) tags directly
- Gain flexibility to perform object animation automation without controller
- Learn more at <u>rok.auto/ccw</u>
- Accelerate machine development with one integrated design software



LEARN MORE

- Visit rok.auto/micro800
- Boost efficiency with self-paced tutorials at

Connect with us. 😝 🗿 in 💆



rockwellautomation.com -

- expanding **human possibility**°

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) 2663 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 UNITED KINGDOM: Rockwell Automation Ltd., Pitfield, Kiln Farm, Milton Keynes, MK11 3DR, United Kingdom, Tel: (44) (1908) 838-800, Fax: (44) (1908) 261-917

Allen-Bradley, Connected Components Workbench, ControlFLASH, expanding human possibility, FactoryTalk, Kinetix, Micro800, Micro810, Micro820, Micro830, Micro850, Micro870, MicroLogix, PanelView, PowerFlex, Rockwell Automation, Studio 5000 Logix Designer, and TechConnect are trademarks of Rockwell Automation, Inc. CIP and EtherNet/IP are trademarks of ODVA, Inc. microSD is a trademark of SD-3C. Trademarks not belonging to Rockwell Automation are property of their respective companies.

Publication 2080-BR001H-EN-P - November 2022 | Supersedes Publication 2080-BR001G-EN-P - April 2022