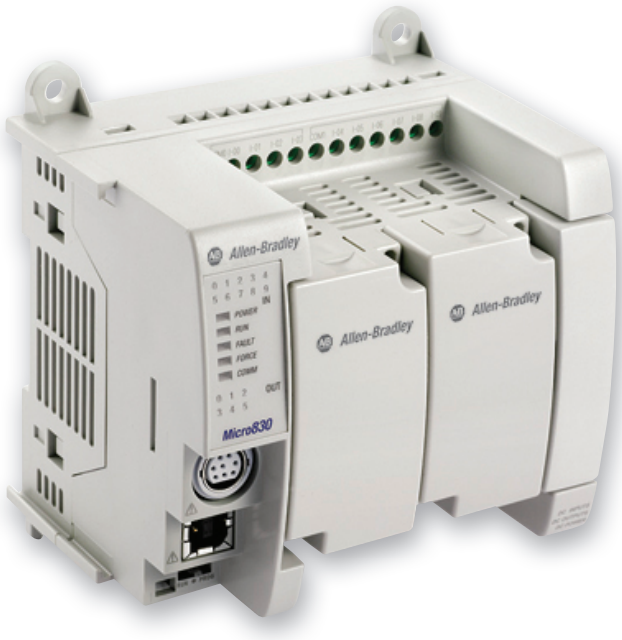
Micro830™ Programmable Logic Controller

Bulletin 2080 Product Profile

Allen-Bradley

Features and Benefits

- Different controller types sharing same form factor and accessories
  - Form factor based on number of I/O points embedded in the base: 10, 16, 24, or 48
- Controllers include:
  - As many as six High-Speed Counter inputs (HSC)
  - 100 kHz speed HSC available on 24V DC models
  - High speed input interrupts
  - Modbus RTU protocol (serial port)
  - Embedded USB programming and serial port (RS232/485)
  - Plug-in slots to customize according to needs
- Standard version of Connected Components Workbench software available as a free download
- Wide range of plug-in modules allow you to change the personality of the base unit controller, up to 5 plug-ins for 48pt controller



Machine builders and end users who need a cost-effective control solution for their small applications will benefit from the new family of Allen-Bradley® Micro800 programmable controllers and Connected Components Workbench™ software from Rockwell Automation.

The Micro830 controller allows easy incorporation of as many as five plug-in modules. The plug-in modules enable machine builders to personalize the controllers to increase functionality without expanding the product footprint. The new controller family also offers removable terminal blocks (most models) and simplified communication via serial port.

Connected Components Workbench software is shared among the entire Micro800 family of controllers, as well as other component products, such as PanelView Component HMIs and PowerFlex drives. Based on proven Rockwell Automation and Microsoft Visual Studio technology, the new software provides controller programming, device configuration and data sharing with the HMI editor for PanelView Component operator products. In addition, the software supports three standard IEC programming languages: ladder diagram, function block diagram and structured text.

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Bulletin 2080

Catalog #	Inputs		Outputs		
	110V AC	24V DC/ V AC	Relay	24V Sink	24V Source
2080-LC30-10QWB	—	6	4	—	—
2080-LC30-10QVB	—	6	—	4	—
2080-LC30-16AWB	10	—	6	—	—
2080-LC30-16QWB	—	10	6	—	—
2080-LC30-16QVB	—	10	—	6	—
2080-LC30-24QBB	—	14	—	—	10
2080-LC30-24QVB	—	14	—	10	—
2080-LC30-24QWB	—	14	10	—	—
2080-LC30-48AWB	28	—	20	—	—
2080-LC30-48QBB	—	28	—	—	20
2080-LC30-48QVB	—	28	—	20	—
2080-LC30-48QWB	—	28	20	—	—
Accessories					
2080-PS120-240VAC	External 120/240V AC power supply				
Plug-in Modules					
2080-IF4	4-ch Analog Input, 0-20 mA, 0-10V, non-isolated 12-bit				
2080-IF2	2-ch Analog Input, 0-20 mA, 0-10V, non-isolated 12-bit				
2080-OF2	2-ch Analog Output 0-20 mA, 0-10V, non-isolated 12-bit				
2080-SERIALISOL	RS232/485 isolated serial port				
2080-TRIMPOT6	6-ch Trimpot Analog Input				
2080-RTD2	2-ch RTD, non-isolated, 0.5C				
2080-TC2	2-ch TC, non-isolated, 1C				
2080-MEMBAK-RTC	Memory Backup and High Accuracy RTC				

Micro830	10pt	16pt	24pt	48pt
Base Unit				
Power Supply	Base Unit has embedded 24V DC Power Supply. Optional External 120/240V AC power supply			
Base Programming Port	Embedded USB 2.0 (non-isolated) Any standard USB printer cable will work			
Base Serial Port	RS-232/485 non-isolated			
Base EtherNet/IP port	None			
Base unit Plug-In Slots	2	2	3	5
Base 100 kHz HSC max	2 HSC		4 HSC	6 HSC
I/O				
Base Digital I/O (In/Out)	10 (6/4)	16 (10/6)	24 (14/10)	48 (28/20)
Base Analog I/O channels	Via Plug-In Modules			
Additional Functions (Plug-In Modules)				
Isolated RS232/485	Via Plug-In			
2/4-ch Analog	Via Plug-In			
RTD/TC	Via Plug-In			
Trim Potentiometer	Via Plug-In			
Back-up Memory Module	Via Plug-In			
High Precision Real-Time Clock	Via Plug-In			

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Programming				
Software	Connected Components Workbench			
Program Steps (or instructions)	4 KB		10 KB	
Data (bytes)	8 KB		20 KB	
IEC 61131-3 Languages	Ladder Diagram, Function Block, Structured Text			
User Defined Function Blocks	Yes			
Floating Point Math	32-bit and 64-bit			
PID Loop Control	Yes			
Embedded Serial Port Protocols	Modbus Master/Slave, ASCII/Binary			
Environments				
Certifications	c-UL-us CL1DIV2, CE, Marine, C-Tick			
Temperature Range	-20°…65 °C (supports outdoor RTU applications) Condensation not allowed			
Dimensions (HxWxD, mm)	90x100x80	90x100x80	90x145x80	90x230x80

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