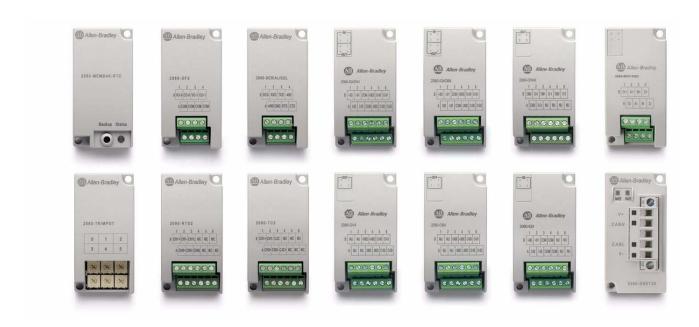
Select Micro800 Plug-in Modules and Accessories



Micro800 plug-in modules extend the functionality of embedded I/O without increasing the footprint of the controller. It improves performance by adding additional processing power or capabilities and adds additional communication functionality. Micro820, Micro830 and Micro850 controllers support plug-in modules.

Micro800 accessories consist of a Remote LCD (compatible with Micro820 only), an LCD with keypad (compatible with Micro810 only), a USB adapter (compatible with Micro810 only), and an expansion power supply.

Micro800 Plug-in Modules and Accessories – Features and Compatibility

Plug-in / Accessory	Supported by Micro810	Supported by Micro820	Supported by Micro830/Micro850	Feature		
1.5" LCD and Keypad	Yes	No	No	backup module for Micro810 controllers		
2080-LCD				configure Smart Relay Function Blocks		
Micro810 USB Adapter 2080-USBADAPTER	Yes	No	No	USB programming access		
External Power Supply 2080-PS120-240VAC	Yes	Yes	Yes	optional controller power supply		
RS232/485 Isolated Serial Port 2080-SERIALISOL	No Yes		Yes	adds additional serial communications with Modbus RTU and ASCII protocols		
				isolated for increased noise immunity		
Digital Input, Output, Relay, and Combination Modules 2080-IQ4, 2080-IQ40B4, 2080-IQ40V4,	No	Yes	Yes	4-channel inputs/outputs or combination modules		
2080-0B4, 2080-0V4, 2080-0W4I				configurable as voltage and current inputs		
				sink or source output		
				4-channel relay outputs		
High Speed Counter 2080-MOT-HSC	No	Yes	Yes	Up to a minimum of 250 KHz differential line driver for improved noise immunity and additional dedicated I/0		
				One Quadrature (ABZ) differential inputs alternately configurable for pulse internal, pulse with external direction, A-up and B-down input configurations, and quadrature mode		
				User-configurable minimum and maximum values, preset, and Z operation		
DeviceNet Scanner 2080-DNET20	No	Yes	Yes	 Scanner mode – scan devices such as CompactBlock™ LDX, PowerFlex® drives, overloads and sensors 		
Remote LCD 2080-REMLCD	No	Yes	No	Operator interface for configuring such settings as IP address on Micro820 controller		
				With RS232 and USB ports		
Non-isolated Unipolar Analog Input/Output 2080-IF2, 2080-IF4, 2080-OF2	No	Yes	Yes	adds up to 20 embedded analog I/O with 12-bit resolution (with 48-point controllers)		
2000 112, 2000 11 1, 2000 012				• 2 channels for 2080-IF2, 2080-OF2		
				4 channels for 2080-IF4		
Non-isolated Thermocouple 2080-TC2	No	Yes	Yes	 for temperature control, when used with PID 2 channels for 2080-TC2 and 2080-RTD2 		
Non-isolated RTD 2080-RTD2	No	Yes	Yes	2 Sharmold for 2000 102 and 2000 11102		
Memory Module with RTC 2080-MEMBAK-RTC	No	No	Yes	backup project data and application code high accuracy real-time clock		
6-Channel Trim Potentiometer Analog Input 2080-TRIMPOT6	No	, , , , , , , , , , , , , , , , , , ,		adds six analog presets for speed, position and		

Catalog	Output power, inductive break, max	Pilot duty rating	Minimum load, per point	Initial contact resistance of relay, max	Output delay time, max
2080-0W4I	180 VA for 125V AC inductive loads 180 VA for 240V AC inductive loads 28 VA for 28.8V DC inductive loads 28 VA for 48V DC inductive loads 28 VA for 125V DC inductive loads	C300, R150	10 mA	30 mΩ	10 ms ON or OFF

Catalog	Relay contact, (0.35 power factor)							
	Volts, max Amperes Make Break Amperes Continuous	Amperes			Volt-Amperes			
		Make	Break					
2080-0W4I	120V AC	15 A	1.5 A	2.0 A	1800V A	180V A		
	240V AC	7.5 A	0.75 A					
	24V DC	1.0 A		1.0 A	28V A	1		
	125V DC	0.22 A						

Catalog	Operating temperature	Non-operating temperature	Surrounding air, max	Relative humidity	Vibration	Shock, operating	Shock, non-operating
2080-0W4I	-2065 °C (-4149 °F)	-4085 °C (-40185 °F)	65 °C (149 °F)	595% noncondensing	2 g @ 10500 Hz	10 g	DIN rail mounting: 25 g Panel mounting: 35 g



Analog Input and Output Plug-ins

Specifications (2080-IF2, 2080-IF4, 2080-OF2)

Catalog	Number of inputs/outputs	Voltage range	Current range	Power consumption	Input impedance	Voltage resistive load
2080-IF2	2 inputs, unipolar non-isolated	010V	OV 020 mA <60 mA @ 3.3V		>100 k Ω for voltage mode 250 Ω for current	
2080-IF4	4 inputs, unipolar non-isolated				mode	
2080-OF2	2 outputs, unipolar non-isolated			<60 mA @ 24V	_	1 kΩ, min

Catalog	Current resistive load	Mounting torque	Terminal screw torque	Wire size	Operating temp.	Non-operating temp.	Surrounding air, max	North American temp code
2080-IF2	_	0.2 Nm (1.48 lb-in.)	0.220.25 Nm (1.952.21	Solid : 0.14 mm ² (26 AWG), min	-2065 °C (-4149 °F)	-4085 °C (-40185 °F)	65 °C (149 °F)	T4
2080-IF4		(1.46 ID-III.)	Ìb-in.)	1.5 mm ² (16 AWG), max	(-4149 F)	(-40185 °F)		
2080-OF2	500 Ω		using a 2.5 mm (0.10 in.) flat-blade screwdriver	Stranded : 0.14 mm ² (26 AWG), min 1.0 mm ² (18 AWG), max rated @ 90 °C (194 °F) insulation max				

Select a Micro800 Controller



Micro800 $^{\infty}$ controllers are designed for low-cost, standalone machines. These economical small-size PLCs are available in different form factors based on the number of I/O points embedded in the base, with a range of features intended to address different requirements. The Micro800 family shares programming environment, accessories and plug-ins that allow machine builders to personalize the controller for specific capabilities.

Micro810™ controllers function as a smart relay with high current relay outputs, but with the programming capabilities of a micro PLC. The Micro810 controllers come in a 12-point form factor.

Micro820™ controllers are specifically designed for smaller standalone machines and remote automation projects. It has embedded Ethernet and serial ports and a microSD™ slot for datalogging and recipe management. These controllers come as 20-point form factors that can accommodate up to two plug-in modules. It also supports the Micro800 Remote LCD (2080-REMLCD) module to allow easier configuration of such settings as IP address and functions as a simple IP65 text display.

Micro830™ controllers are designed for standalone machine control applications. They have flexible communications and I/O capabilities with up to five plug-ins. They come as a 10-, 16-, 24-, or 48-point form factors.

Micro850™ expandable controllers are designed for applications that require more digital and analog I/O or higher performance analog I/O. They can support up to four expansion I/O. Micro850 controllers include additional communication connection options through an embedded 10/100 Base-T Ethernet port.

Several Micro830 and Micro850 controllers support basic positioning through embedded pulse train outputs (PTO). These controllers also allow you to configure up to six high speed counters (HSC), and choose from nine HSC operation modes. HSC is supported on all Micro830 and Micro850 catalogs, except on 2080-LCxx-xxAWB. PTO is only supported on Micro830 and Micro850 catalog numbers that end in BB or VB.

This selection guide serves to help you identify the right controller, plug-ins, expansion I/O, and accessories, based on your requirements.

