

Micro820 Controllers – Number and Types of Inputs and Outputs

Catalog Number	Inputs			Outputs			Analog Out 0...10V DC	Analog In 0...10V (shared with DC In)	PWM Support
	120V AC	120/240V AC	24V DC	Relay	24V DC Source	24V DC Sink			
2080-LC20-20AWB	8	–	4	7	–	–	1	4	–
2080-LC20-20AWBR	8	–	4	7	–	–	1	4	–
2080-LC20-20QWB	–	–	12	7	–	–	1	4	–
2080-LC20-20QWBR	–	–	12	7	–	–	1	4	–
2080-LC20-20QBB	–	–	12	–	7	–	1	4	1
2080-LC20-20QBRR	–	–	12	–	7	–	1	4	1

For more information, see the Micro820 Programmable Controllers User Manual, publication [2080-UM005](#).

Specifications

General Specifications

Attribute	2080-LC20-20AWB, 2080-LC20-20AWBR	2080-LC20-20QWB, 2080-LC20-20QWBR	2080-LC20-20QBB, 2080-LC20-20QBRR	
Number of I/O	20 (12 inputs, 8 outputs)			
Dimension (HxWxD)	90 x 104 x 75 mm (3.54 x 4.09 x 2.95 in.)			
Shipping weight, approx.	0.38 kg (0.83 lb)			
Wire size	For fixed terminal blocks:			
		Min	Max	Rated @ 90 °C (194 °F) insulation max
	Solid	0.14 mm ² (26 AWG)	2.5 mm ² (14 AWG)	
	Stranded	0.14 mm ² (26 AWG)	1.5 mm ² (16 AWG)	
	For removable terminal blocks:			Rated @ 90 °C (194 °F) insulation max
		Min	Max	
	Solid and Stranded	0.2 mm ² (24 AWG)	2.5 mm ² (14 AWG)	
	For RS232/RS485 serial port:			Rated @ 90 °C (194 °F) insulation max
		Min	Max	
	Solid	0.14 mm ² (26 AWG)	1.5 mm ² (16 AWG)	
Stranded	0.14 mm ² (26 AWG)	1.0 mm ² (18 AWG)		
Wiring category ⁽¹⁾	2 – on signal ports 2 – on power ports 2 – on communication ports			
Wire type	Use copper conductors or shielded cables			

General Specifications

Attribute	2080-LC20-20AWB, 2080-LC20-20AWBR	2080-LC20-20QWB, 2080-LC20-20QWBR	2080-LC20-20QBB, 2080-LC20-20QBRR
Terminal screw torque	For removable and fixed terminal blocks: 0.5...0.6 Nm (4.4...5.3 lb-in.) using a 0.6 x 3.5 mm flat-blade screwdriver. Note: Use a handheld screwdriver to hold down the screws at the side. For RS232/RS485 serial port: 0.22...0.25 Nm (1.95...2.21 lb-in.) using 0.4 x 2.5 x 80 mm 2-component grip with non-slip grip screwdriver.		
Input circuit type	120V AC – for Inputs 4...11 only	24V DC sink/source (standard)	
Output circuit type	Relay		24V DC source (standard and high-speed)
Power input	24V DC		
Power consumption, max	5.62 W – without plug-in modules 8.5 W – with plug-in modules		
Power dissipation, max	6 W		
Power supply voltage range	20.4...26.4 V DC, Class 2		
Auxiliary power supply output for thermistor	10V		
I/O rating	Input: 120V AC 16 mA Output: 2 A, 240V AC 2 A, 24V DC	Input: 24V DC, 8.8 mA Output: 2 A, 240V AC 2 A, 24V DC	Input: 24V DC, 8.8 mA Output: 24V DC, 1 A per point (Surrounding air temperature 30°C) 24V DC, 0.3 A per point (Surrounding air temperature 65 °C)
Isolation voltage	250V (continuous), Reinforced Insulation Type, Output to Aux and Network, Inputs to Outputs. 150V (continuous), Reinforced Insulation Type, Input to Aux and Network. Type tested for 60 s @ 3250V DC Output to Aux and Network, Inputs to Outputs. Type tested for 60 s @ 1950V DC Input to Aux and Network.	250V (continuous), Reinforced Insulation Type, Output to Aux and Network, Inputs to Outputs. 50V (continuous), Reinforced Insulation Type, Input to Aux and Network. Type tested for 60 s @ 720V DC, Inputs to Aux and Network, 3250V DC Outputs to Aux and Network, Inputs to Outputs.	50V (continuous), Reinforced Insulation Type, I/O to Aux and Network, Inputs to Outputs. Type tested for 60 s @ 720V DC, I/O to Aux and Network, Inputs to Outputs.
Pilot duty rating	C300, R150		–
Insulation stripping length	7 mm for the removable and fixed terminal blocks 5 mm for the RS232/RS485 serial port		
Enclosure type rating	Meets IP20		
North American temp code	T4		

(1) Use this Conductor Category information for planning conductor routing. Refer to Industrial Automation Wiring and Grounding Guidelines, publication [1770-4.1](#).



At the end of its life, this equipment should be collected separately from any unsorted municipal waste.