Shields

## P1AM-GPIO $61.00

Header Pin Breakout Module

The P1AM-GPIO is a housed Arduino MKR form factor shield that brings a subset of the MKR header pins to the front faceplate with an 18-position terminal block. These pins include basic overvoltage, undervoltage, and overcurrent protection. It connects to the left side of the P1AM-100 CPU and most Arduino MKR form factor shields.
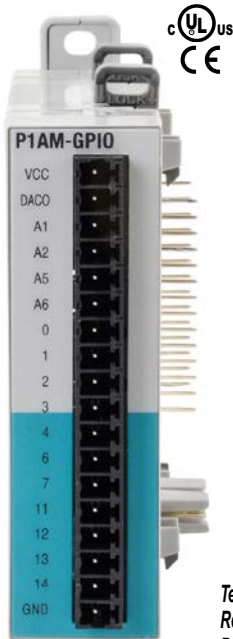
General Specifications	
Operating Temperature	0° to 60°C (32° to 140°F)
Storage Temperature	-20° to 70°C (-4° to 158°F)
Humidity	5 to 95% (non-condensing)
Environmental Air	No corrosive gases permitted
Vibration	IEC60068-2-6 (Test Fc)
Shock	IEC60068-2-27 (Test Ea)
Heat Dissipation	475mW
Enclosure Type	Open Equipment
Module Location	Connects to the left side of the P1AM-100 CPU.
Weight	56g (2.0 oz.)
Agency Approvals	UL 61010-1 and UL 61010-2-201 File E139594, Canada & USA CE

Terminal block connector sold separately. Recommended connector options P2-RTB or P2-RTB-1.

P1AM-GPIO
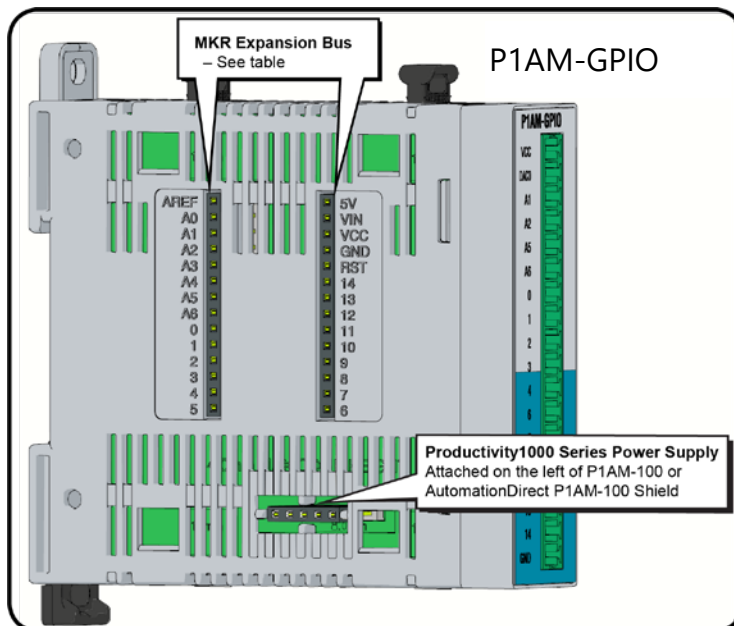
MKR Expansion Bus Pins	
GPIO	A0–A6, 0–14
Analog Input Pins	A0–A6
Analog Output Pins	A0
PWM Pins	0–8, 10, A3, A4
Interrupt Pins	0, 1, 4–8, A1, A2
5V	5V supply output
Vin	5V regulated supply
VCC	3.3 V supply output
GND	Ground
RST	Reset
AREF	Analog Input Reference

Critical Notes:
Pins A3, A4, and 8–10 are used for the base controller.
Do not exceed 46mA combined from pins 0, 1, and 4–10.
Do not exceed 3.3 V on any I/O pin.
Do not exceed 7mA on any I/O pin.
Do not apply power to 5V or VCC

!WARNING!
Do not add or remove modules with field power applied!