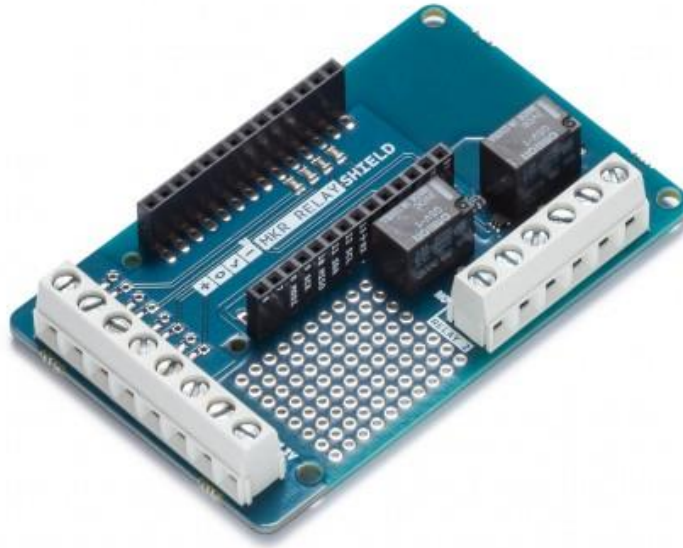


# Arduino MKR Relay Proto Shield

TSX00003

The MKR Relay Proto Shield allows you to easily command relays with your MKR board. The shield provides two on board relays and a small prototyping area if you need to add some other component to your project.



The MKR Relay Protoshield allows you to easily add relays to your MKR board based project. The shield provides two relays called RELAY1 and RELAY2 commanded by pin 1 and pin 2 respectively. The shield also provides easy connection by means of screw terminal blocks to A1 to A4 analog inputs, I2C and supply voltages.

Operating voltage	3.3V (supplied from host board)
Relays	2x relays with NO, COM and NC connections
Termination	Screw terminal blocks
Carry current	2A
Max. operating voltage	125V AC, 60V DC
Max. operating current	1A
Max. switching capacity	62.50VA, 30W

Microcontroller	SAMD21 Cortex-M0+ 32bit low power ARM MCU
Board power supply (USB/VIN)	5V
Supported batteries (not supplied)	2x AA or AAA
Circuit operating voltage	3.3V
Digital I/O pins	8
PWM Pins	12 (0, 1, 2, 3, 4, 5, 6, 7, 8, 10, A3 - or 18 -, A4 -or 19)
UART	1
SPI	1
I2C	1
Analog input pins	7 (ADC 8/10/12 bit)
Analog output pins	1 (DAC 10 bit)
External interrupts	8 (0, 1, 4, 5, 6, 7, 8, A1 -or 16-, A2 - or 17)
DC Current per I/O pin	7 mA
Flash memory	256 KB
SRAM	32 KB
EEPROM	No
Clock speed	32.768kHz (RTC), 48MHz
LEDs	6
Antenna power	2dB
Carrier frequency	868MHz
Working region	EU
Length	67.64mm
Width	25mm