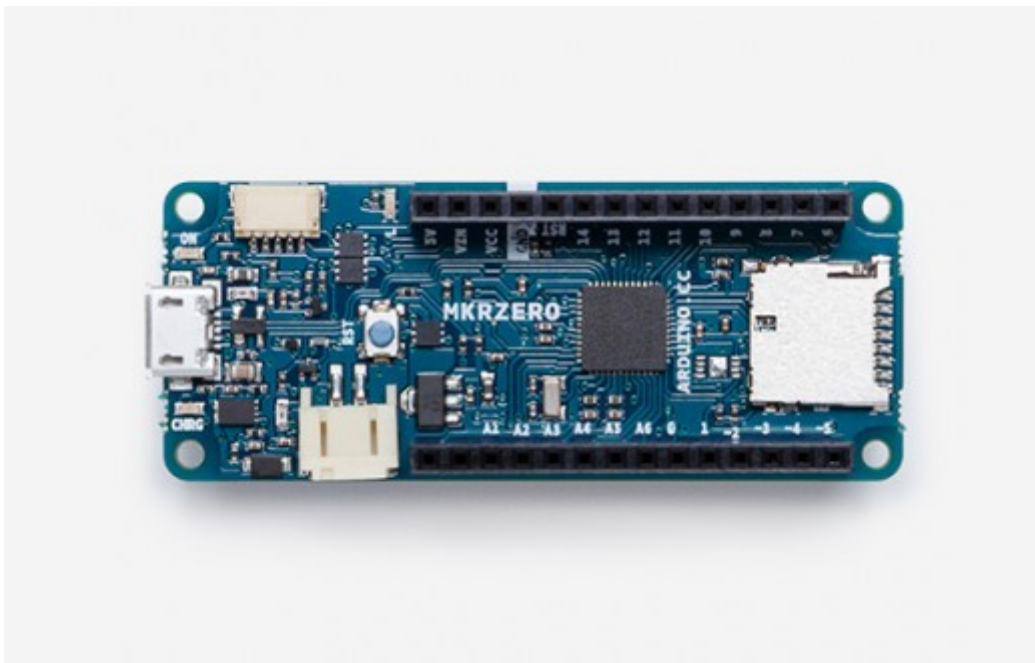


ARDUINO MKR ZERO (I2S BUS & SD FOR SOUND, MUSIC & DIGITAL AUDIO DATA)

Code: ABX00012



tax not included

Quantity:

BUY NOW

Want to learn more?

GETTING STARTED ([HTTPS://WWW.ARDUINO.CC/EN/GUIDE/ARDUINOMKRZERO](https://www.arduino.cc/en/guide/arduinomkrzero))

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AVR < 20 mA SD 3.3V Small (LiPo

MKR ZERO has an on-board SD connector with dedicated SPI interfaces (SPI1) that allows you to play with MUSIC files with no extra hardware!

Watch out music makers, we've got some news for you! We have released two libraries for your enjoyment:

Arduino Sound library

(<https://arduino.cc/en/Reference/ArduinoSound>) – a simple way to play and analyze audio data using Arduino on SAM D21-based boards.

I2S library (<https://arduino.cc/en/Reference/I2S>) – to use the I2S protocol on SAMD21-based boards. For those who don't know, I2S (Inter-IC Sound) is an electrical serial bus interface standard for connecting digital audio devices.



OVERVIEW

TECH SPECS

DOCUMENTATION

FAQ

Microcontroller	SAMD21 Cortex-M0+ 32bit low power ARM MCU
Board Power Supply (USB/VIN)	5V
Supported Battery(*)	Li-Po single cell, 3.7V, 700mAh minimum
DC Current for 3.3V Pin	600mA
DC Current for 5V Pin	600mA
Circuit Operating Voltage	3.3V
Digital I/O Pins	22
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
Flash Memory for Bootloader	8 KB
SRAM	32 KB
EEPROM	no
Clock Speed	32.768 kHz (RTC), 48 MHz

Full-Speed USB Device and
embedded Host

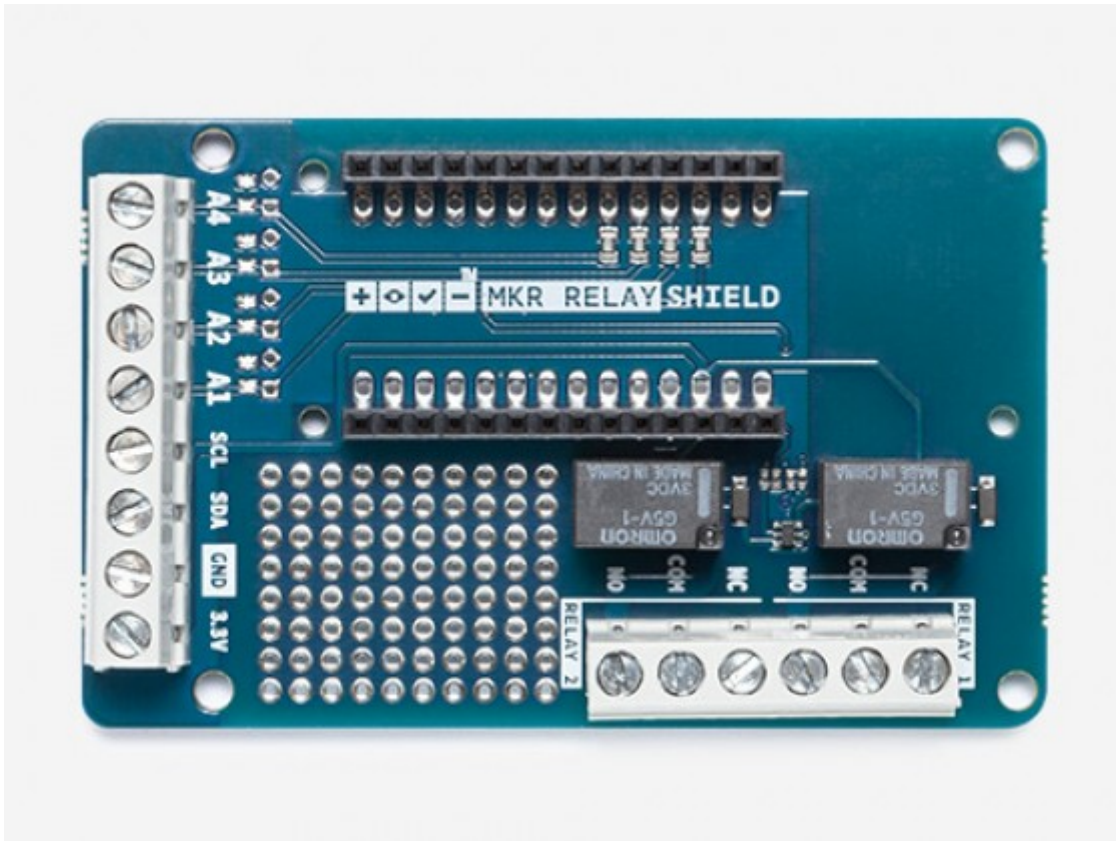
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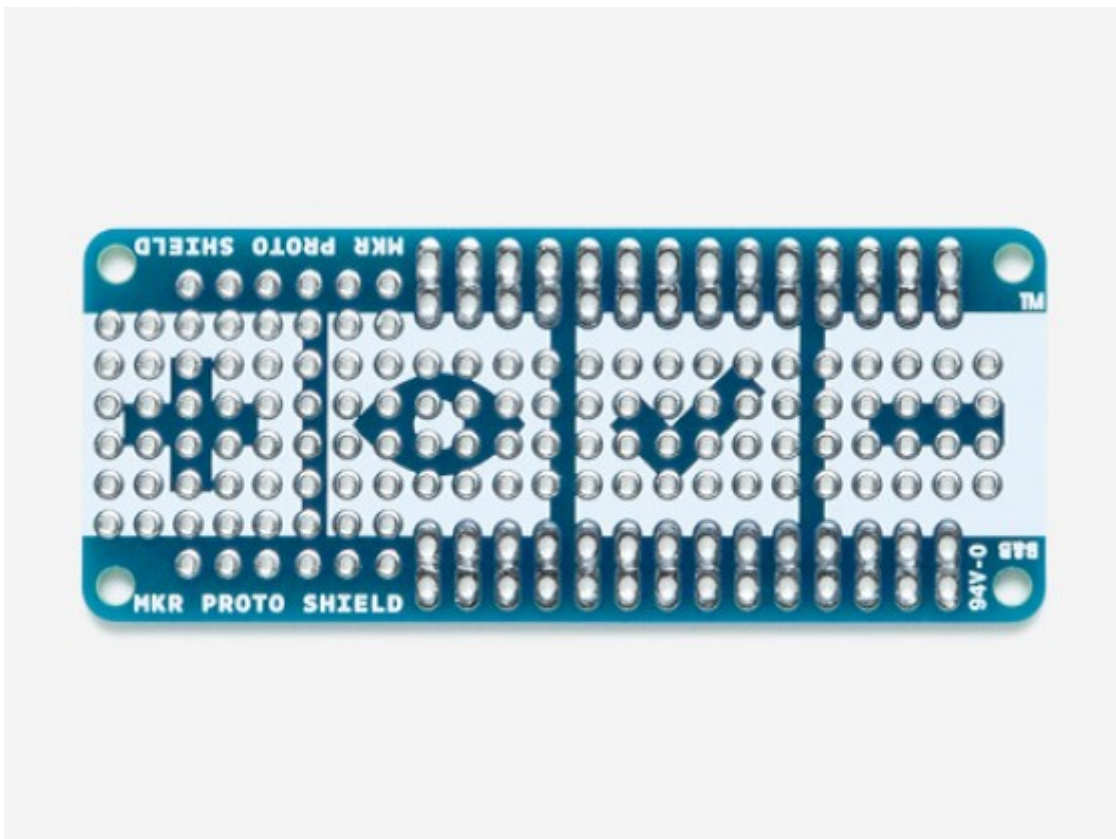
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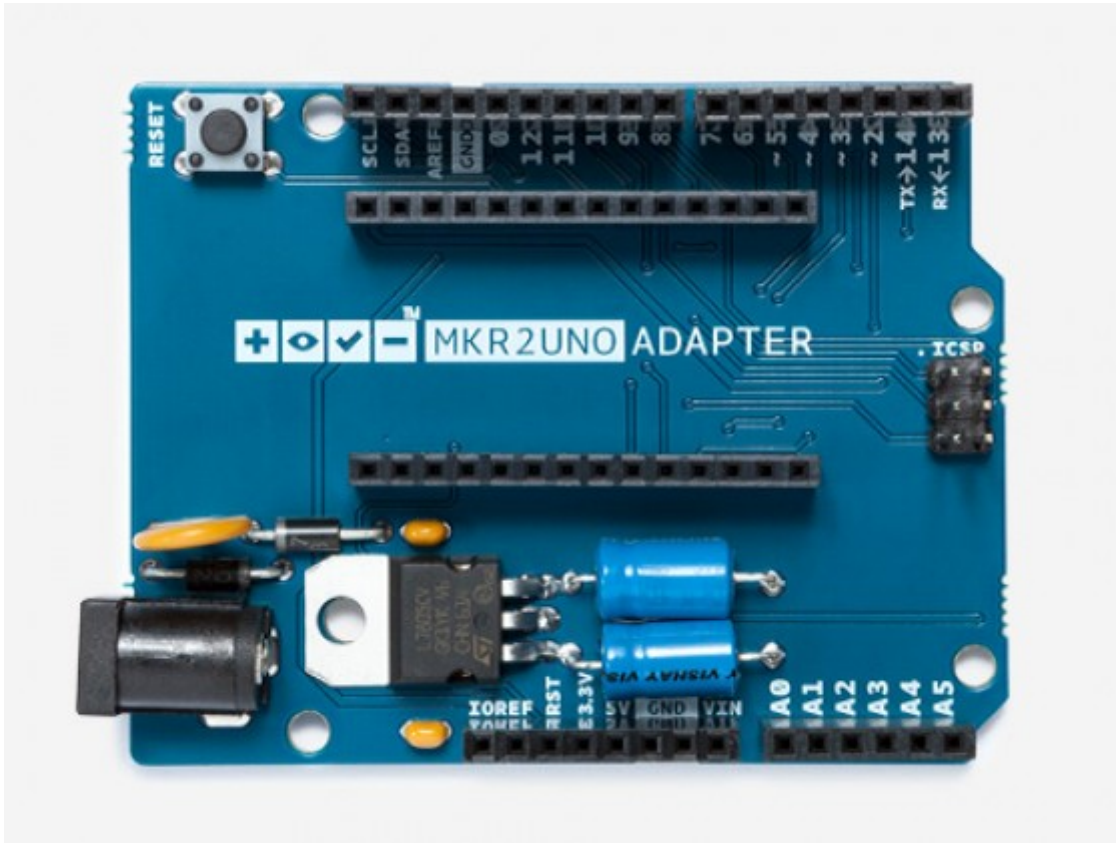
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