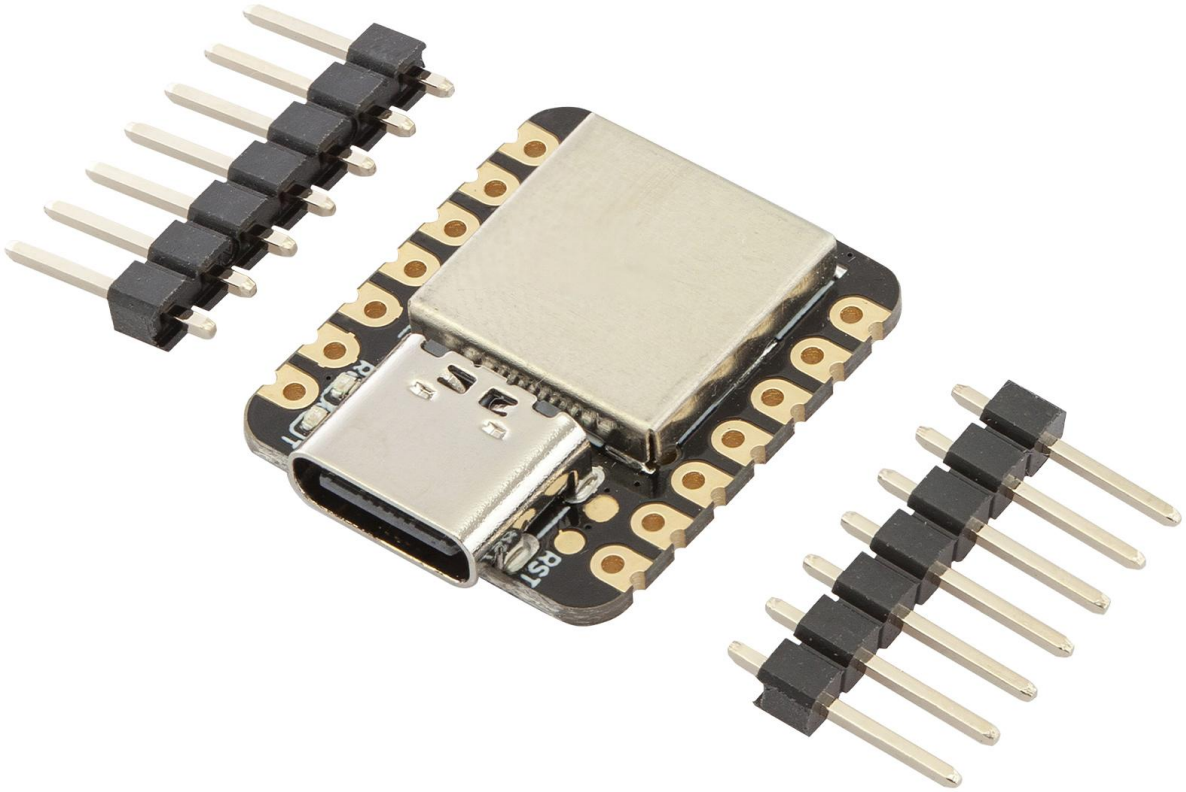
datasheet

Seeeduino Xiao



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Description

Take a look at this High-Quality Mini Development Board. What a small size and cute looking! It is the smallest member of the AZ-Delivery family. This microcontroller still carries the powerful CPU-ARM® Cortex®-M0+(SAMD21G18) which is a low-power microcontroller. On the other hand, this little board has good performance in processing but needs less power. As a matter of fact, it is designed in a tiny size and can be used for Arduino wearable devices and small projects.

Apart from the strong CPU,this is excellent in many other functions. It has 14 GPIO PINs, which can be used for 11 analog PINs, 11 digital PINs, 1 I2C interface, 1 UART interface, and 1 SPI interface. Some PINs have various functions, A1/D1 to A10/D10 Pins have PWM functions and Pin A0/D0 has a function of DAC which means you can get true analog signals not PWM signals when you define it as an analog pin, that's why 14 GPIO PINs can realize more I/O PINs and interfaces. Moreover, Seeeduino XIAO supports the USB Type-C interface which can supply power and download code. There are power pads at the back of the microcontroller which support battery and make it designed for wearable devices to become realistic. Except for the power LED, we add a user LED on board for your better coding experience. Usually a Dev. Board as small as this size will use the chip's inner crystal oscillator for time fixing, in order to make the clock more accurate, microcontroller layouts an extra 32.768KHz to make the clock more stable.

This High-Quality Mini Development Board is perfectly compatible with Arduino IDE, you can easily develop some small projects with the help of the large and comprehensive Arduino library. So get one and you will soon love it!

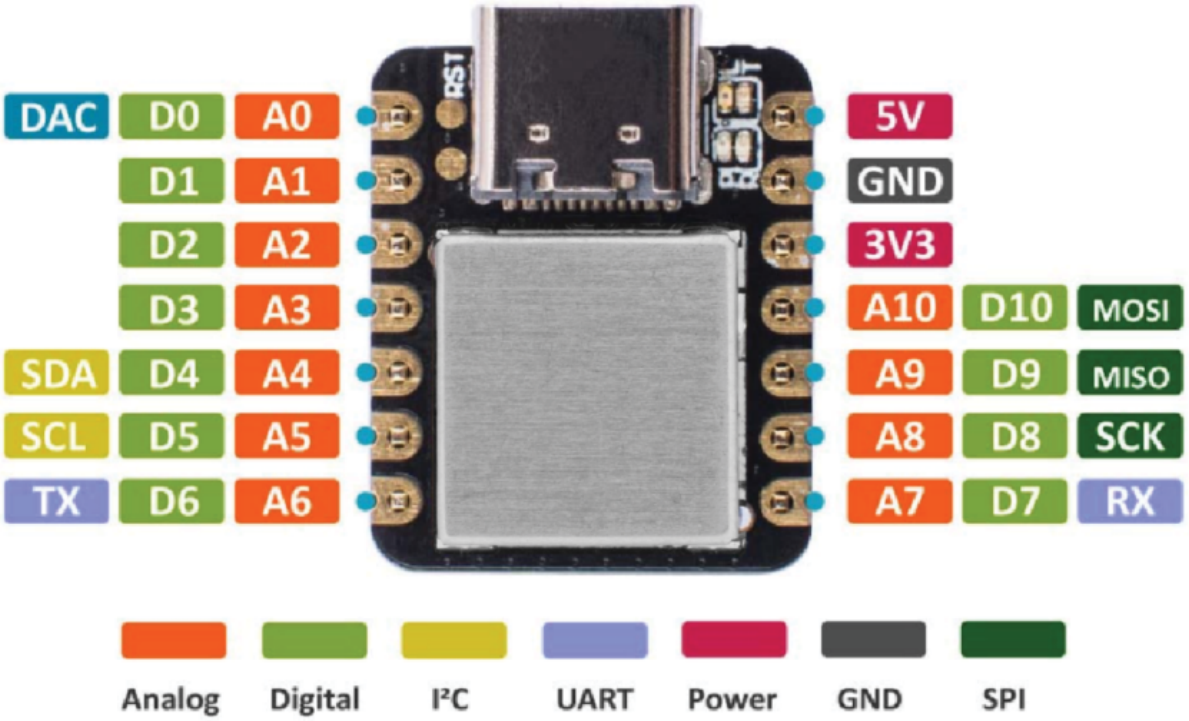
Attention

All the I/O pins are 3.3V, please do not input more than 3.3V, otherwise, the CPU may be damaged

Specification

Processor	ARM Cortex-M0+ CPU(SAMD21G18) running at up to 48MHz
Flash Memory	256KB
SRAM	32KB
Digital I/O Pins	11
Analog I/O Pins	11
I2C Interface	1
SPI Interface	1
QTouch	7 (A0,A1,A6,A7,A8,A9,A10)
UART Interface	1
Power supply and downloading interface	Type-C
Power	3.3V/5V DC
Dimensions	20×17.5×3.5mm

Typical Application

- Wearable devices
- Rapid prototyping (directly attached to the expanded PCB as a minimal system)
- Perfect for all the projects that need a small sized microcontroller
- DIY keyboard
- USB development (USB to multi-channel TTL/USB host mode, etc.)

Hardware Pinout