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DAC)External interruptsAll digital pinsLED\_BUILTTIND13USBNative in the nRF52840 processorInertial measurement unit (IMU)LSM9DS1 (9-axis)PCB size18 x 45 mmWeight5 g (with headers)CostCheck price The Arduino Nano 33 BLE is open-source hardware! You can download the schematics for this board below: The Fritzing model of the Arduino Nano 33 BLE can be found here: Arduino Nano 33 BLE pinout Arduino Nano 33 BLE pinout Just like the Arduino Nano 33 IoT, you need to short the VBUS jumper on the back of the board if you want to use the +5V output. You can connect an external NFC antenna between pins D7 and D8 to activate Bluetooth pairing of the board over NFC. Programming the Arduino Nano 33 BLE/Sense with the Arduino IDE If you want to use the Arduino Nano 33 BLE or BLE Sense with the Arduino Desktop IDE, you need to add the Arduino nRF528x mbed Core to it. To do this go to Tools > Board > Boards Manager. Now search for 'nano 33 ble' and select Arduino nRF528x Boards (Mbed OS) by Arduino. Select the latest version and click Install. If you properly installed the nRF528x Core, Windows should initiate its driver installation process automatically once you connect the board to your computer with a micro USB cable. Before you can upload your program to the board, select Arduino NANO 33 BLE under Tools > Board > Arduino nRF528x Boards (Mbed OS). Next, select the right COM port under the Tools > Port menu. If you disconnect and reconnect your board while looking at the menu, you should be able to see which entry is the Arduino board. Arduino Nano 33 BLE Sense Arduino Nano 33 BLE Sense (Source: Arduino) The Arduino Nano 33 BLE Sense features the same 32-bit ARM Cortex-M4 processor as the Arduino Nano 33 BLE, but also includes a bunch of onboard sensors: a 9-axis IMU, temperature, pressure, humidity, light, color, gesture sensors, and even a microphone that are managed through several specialized Arduino libraries. Arduino Nano 33 BLE Sense sensors (Source: Arduino) This board has become very popular as a machine learning platform using TensorFlow Lite for microcontrollers (TinyML). You can find a detailed getting started guide on the Arduino site and some great examples on twitter. Arduino Nano 33 BLE Sense specifications MicrocontrollernRF52840Operating voltage3.3 VInput voltage (VIN)5-21 VDC current per I/O pin15 mA CPU flash memory1 MB (nRF52840)SRAM256 KB (nRF52840)Clock speed64 MHzEEPROMNoneDigital I/O pins14PWM pinsAll digital pinsUART1SPI1I2C1Analog input pins8 (ADC 12 bit 200 k samples)Analog output pinsOnly through PWM (no DAC)External interruptsAll digital pinsLED\_BUILTTIND13USBNative in the nRF52840 processorInertial measurement unit (IMU)LSM9DS1 (9-axis)MicrophoneMP34DT05Gesture, light, proximityAPDS9960Barometric pressureLPS22HBTemperature, humidityHTS221PCB size18 x 45 mmWeight5 g (with headers)CostCheck price The Arduino Nano 33 BLE Sense is open-source hardware! You can download the schematics for this board below: The Fritzing model of the Arduino Nano 33 BLE Sense can be found here: Arduino Nano 33 BLE Sense Pinout Arduino Nano 33 BLE Sense pinout Programming the Arduino Nano 33 BLE Sense with the Arduino IDE You can use the same procedure as for the Arduino Nano 33 BLE to install the Arduino nRF528x mbed Core (see above). Because the Arduino Nano 33 BLE Sense is a hardware variation of the Arduino Nano 33 BLE, both boards are recognized as the Arduino nano 33 BLE and this is normal. In the board manager and the board selection, you will only find Arduino Nano 33 BLE. Arduino Nano comparison From left to right: Arduino Nano, Arduino Nano Every, Arduino Nano 33 IoT, Arduino Nano 33 BLE, Arduino Nano 33 BLE Sense Are you wondering which Arduino Nano board would work best for your project? Check out the table below for a comparison. Arduino Nano comparison table PropertyArduino NanoArduino Nano EveryArduino Nano 33 IoTArduino Nano 33 BLEArduino Nano 33 BLE SenseMicrocontrollerATmega328ATmega4809SAMD21 Cortex@-M0+ 32bit low power ARM MCUnRF52840nRF52840Operating voltage5 V5 V3.3 V3.3 V3.3 VInput voltage (VIN)6-20 V7-21 V5-21 V5-21 V5-21 VClock speed16 Mhz20 MHz48 MHz64 MHz64 MHzFlash32 KB48 KB256 KB1 MB1 MBRAM2 KB6 KB32 KB256 KB256 KBCurrent per pin40 mA40 mA7 mA15 mA15 mAAPWM pins6511AIIIIIIIMUNoNoLSM6DS3 (6-axis)LSM9DS1 (9-axis)LSM9DS1 (9-axis)Other sensorsNoNoNoNoMicrophone, gesture, light, proximity, barometric pressure, temperature, humidityWiFiNoNoYesNoNoBluetoothNoNoYesYesYesUSB typeMiniMicroMicroMicroMicroPrice\*\$20Amazon\$12.50Amazon\$20Amazon\$23Amazon\$33AmazonComparison of Arduino Nano boards Makerguides.com is a participant in the Amazon Services LLC Associates Program, an affiliate advertising program designed to provide a means for sites to earn advertising fees by advertising and linking to products on Amazon.com. \*Prices can vary depending on your region and distributor. Form factor Besides the differences mentioned in the table above, there is one more important difference between the original and the newer Arduino Nano boards and that is the form factor. The original Arduino Nano has components mounted on both the top and the bottom of the board, whereas the newer Arduino Nano boards only have components mounted on the top. Another difference is that you can get the board with or without soldered headers. The boards without soldered headers do include them in the box so you can still install the headers yourself. Note that the board without pre-soldered headers is also a bit cheaper. Lastly, besides the standard through holes, the board also comes with castellated connectors. Close-up of the castellated pads All these features combined allow you to solder the board directly onto your own design, minimizing the height of your whole prototype. The outside and hole dimensions are the same for all of the boards. Conclusion With their small form factor and low cost, the Arduino Nano boards are a great choice for many electronics projects. The newer boards add several awesome features to the original Arduino Nano, like WiFi and Bluetooth connectivity, an IMU, and several other onboard sensors. If you want an onboard battery charge controller or more pins, check out the MKR family of boards and the Arduino Mega. If you have any questions, suggestions, or think that things are missing in this article, please leave a comment below. Note that comments are held for moderation to prevent spam.

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