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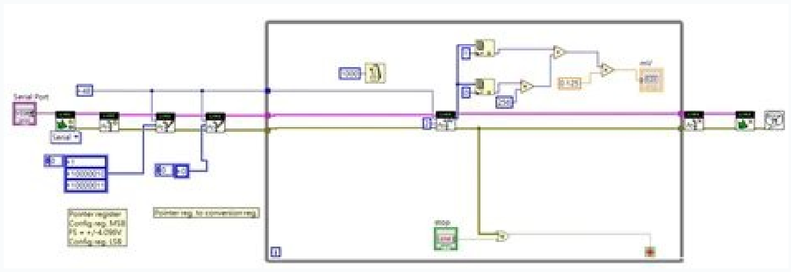

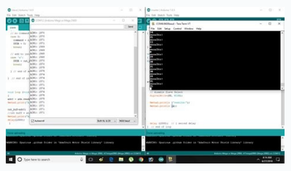

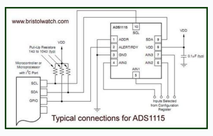

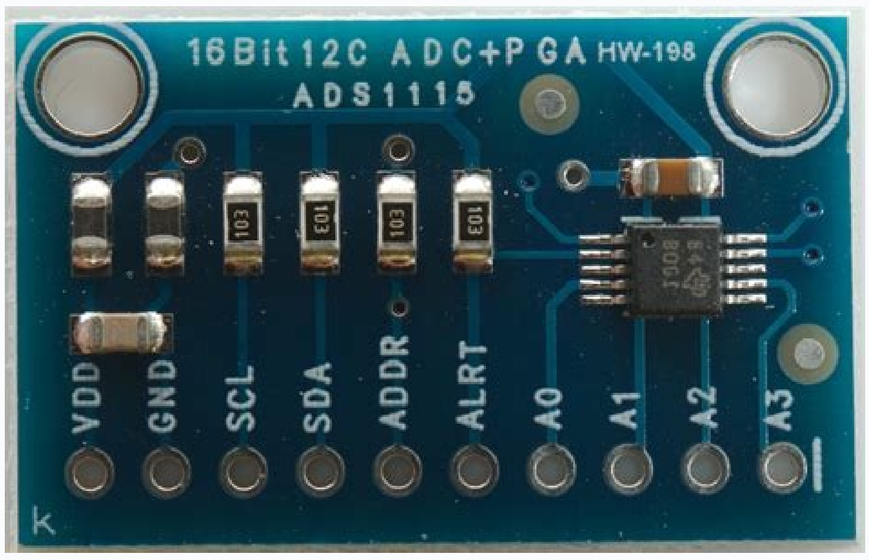

Ads1115 arduino.

Feature¶ Wide supply range: 2.0V ~ 5.5V, support 3.3 or 5V system 16-bit high resolution ADC Programmable Data Rate: 8 SPS to 860 SPS Internal Programmable Gain: x16 with Internal low-drift voltage reference and oscillator The built-in PGA is gain-adjustable and can be controlled by software 4 Single-Ended Inputs or 2 Differential Inputs Specification¶ Parameter Value Input voltage 3.3V / 5V ADC Resolution 16 Bit Programmable Data Rate 8SPS - 860 SPS Channels 4-channel single-ended input or 2-channel differential input Interface I2C, Default Address: 0x48 Hardware Overview¶ Platforms Supported¶ Arduino Raspberry ArduPy Caution The platforms mentioned above as supported is/are an indication of the module's software or theoritical compatibility. Hence, users have to write their own software library. Make sure that the ArduPy firmware with ADS1115 library is flashed into Wio Terminal. Play with Wio Terminal¶ Materials required Step 1. Plug Grove - Base Shield into Seeeduino. Step 4. For more information, please follow here. What’s more, it has a programmable data rate range from 8 SPS to 860 SPS with an internal programmable gain (up to x16) for small signals. Connect Seeeduino to a PC via a USB cable. It is not possible to provide software library / demo code for all possible MCU platforms. Follow ArduPy Getting Started to configure the ArduPy development environment on Wio Terminal. Hardware Connection¶ Step 1. THIS MAY BE DANGEROUS WHEN DEALING WITH BATTERIES。 When in use, the maximum voltage must not exceed 5.5V. NoteFollow Wio Terminal's get started before the following steps. Download the Seeed Arduino ADS1115 Library from Github. Getting Started¶ Play With Arduino¶ Materials required In addition, you can consider our new Seeeduino Lotus M0+, which is equivalent to the combination of Seeeduino V4.2 and Baseshield. /* Modify on May 16, 2021 Modify by MohammedDamirchi base of Home */ // I2C device class (I2Cdev) demonstration Arduino sketch for ADS1115 class // Example of reading two differential inputs of the ADS1115 and showing the value in mV // 2016-03-22 by Eadf (// Updates should (hopefully) always be available at // // Changelog: // 2016-03-22 - initial release /* == I2Cdev device library code is placed under the MIT license Copyright (c) 2011 Jeff Rowberg Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions: The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software. Download the example code here. THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. from arduino import grove_ads1115 import time ads = grove_ads1115() ads.setPGAGain(0x0000) while True: print ("The channel0 value is :", ads.channel0) print ("The channel1 value is :", ads.channel1) print ("The channel2 value is :", ads.channel2) print ("The channel3 value is :", ads.channel3) time.sleep(1) Step 4. Step 3. Plug Grove - 16 Bit ADC(ADS1115) to the I2C port of Grove - Base Shield. Upload the demo. We will see the ADC value display on terminal as below: ansonhe@Ansons-Macbook-Pro ~:aip shell -n -c "runfile /Users/ansonhe/Desktop/ArduPy-ads1115.py" Positional argument (/dev/cu.usbmodem1413101) takes precedence over --open. Connected to ardupy The channel0 value is : 17487.0 The channel1 value is : 3790.0 The channel2 value is : 3170.0 The channel3 value is : 3122.0 The channel0 value is : 17486.0 The channel1 value is : 3272.0 The channel2 value is : 3064.0 The channel3 value is : 3063.0 The channel0 value is : 17486.0 The channel1 value is : 3482.0 The channel2 value is : 3201.0 The channel3 value is : 3185.0 The channel0 value is : 17487.0 The channel1 value is : 17261.0 The channel2 value is : 5055.0 The channel3 value is : 4480.0 The channel0 value is : 11839.0 The channel1 value is : 3540.0 The channel2 value is : 1690.0 The channel3 value is : 1562.0 Precautions¶ WarningWhen using multi-channel on A0 and A1 on screw terminal , please remember to not connect anything on the Grove Interface as they are also using A0 and A1. For example, 10201 x 0.1875mV = 1.91V. The module also contains a Grove port that is internally connected to its channel 0 and channel 1, of which makes it easier to use with Grove Ecosystem. Open the Serial Monitor of Arduino IDE by click Tool-> Serial Monitor. Adjust the rotary sensor and you will see the corresponding voltage on Wio Terminal's LCD screen: Play With Wio Terminal (ArduPy)¶ Hardware¶ Step 1. Connect the Wio Terminal to PC through USB Type-C cable. Run the following command and replace with your ArduPy-ads1115.py location. If you do not know how to upload the code, please check How to upload code. Connect Grove - 16 Bit ADC(ADS1115) to I2C port of Wio Terminal. The result should be like this for 4 channels: NoteIn this example, ⅔x gain is set so need to multiply value by 0.1875mV. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE. When using the multi-channel acquisition, the sampling frequency must be set above 250SPS, otherwise the sampling frequency is too slow, and there is a possibility that the previous channel is not converted, the next channel is started, resulting in the failure to work Schematic Online Viewer¶ Resources¶ Tech Support¶ Please submit any technical issue into our forum Restart the Arduino IDE. Software¶ Step 1. Software¶ Step 1. Connect Wio Terminal to a PC via a USB cable. We provide Grove - 4-channel 16-bit ADC(ADS1115), a 4-channel ADC based on Texas Instrument ADS1115, which is a high-precision, low-power, 16-bit ADC chip. adc0.setMultiplexer(ADS1115_MUX_P0_NG); adc0.triggerConversion(); pollAlertReadyPin(); Serial.print("A0: "); Serial.print(adc0.getMilliVolts(false)); Serial.print("mV\t"); adc0.setMultiplexer(ADS1115_MUX_P1_NG); adc0.triggerConversion(); pollAlertReadyPin(); Serial.print("A1: "); Serial.print(adc0.getMilliVolts(true)); Serial.print("mV\t"); adc0.setMultiplexer(ADS1115_MUX_P2_NG); adc0.triggerConversion(); pollAlertReadyPin(); Serial.print("A2: "); Serial.print(adc0.getMilliVolts(true)); Serial.print("mV\t"); adc0.setMultiplexer(ADS1115_MUX_P3_NG); // Do conversion polling via I2C on this last reading: Serial.print("A3: "); Serial.print(adc0.getMilliVolts(true)); Serial.print("mV"); Serial.println(digitalRead(alertReadyPin)); delay(500); */ edit For microcontrollers without an analog-to-digital converter, or when you need a more accurate ADC. Prepare the below stuffs: Wio Terminal Grove - 16 Bit ADC(ADS1115) Get One Now Get One Now Step 2. The single_ended Example code is as follow: #include "ADS1115.h" #ifdef SOFTWAREWIRE #include SoftwareWire myWire(3, 2); ADS1115 ads(myWire);//IIC #else #include ADS1115 ads(Wire);//IIC #endif void setup(void) { Serial.begin(115200); while(!ads.begin(0x48)){ Serial.print("ads1115 init failed!!!"); delay(1000); } //ads.begin(0x49) //ads.begin(0x4A) //ads.begin(0x4B) ads.setOperateMode(ADS1115_OS_SINGLE); ads.setOperateStaus(ADS1115_MODE_SINGLE); ads.setPGAGain(ADS1115_PGA_6_144); // 2/3x gain +/- 6.144V 1 bit = 0.1875mV (default) // ads.setPGAGain(ADS1115_PGA_4_096); // 1x gain +/- 4.096V 1 bit = 0.125mV // ads.setPGAGain(ADS1115_PGA_2_048); // 2x gain +/- 2.048V 1 bit = 0.0625mV // ads.setPGAGain(ADS1115_PGA_1_024); // 4x gain +/- 1.024V 1 bit = 0.03125mV // ads.setPGAGain(ADS1115_PGA_0_512); // 8x gain +/- 0.512V 1 bit = 0.015625mV // ads.setPGAGain(ADS1115_PGA_0_256); // 16x gain +/- 0.256V 1 bit = 0.0078125mV ads.setSampleRate(ADS1115_DR_8); //8 SPS // ads.setSampleRate(ADS1115_DR_16); //16 SPS // ads.setSampleRate(ADS1115_DR_32); //32 SPS // ads.setSampleRate(ADS1115_DR_64); //64 SPS // ads.setSampleRate(ADS1115_DR_128); //128 SPS // ads.setSampleRate(ADS1115_DR_250); //250 SPS // ads.setSampleRate(ADS1115_DR_475); //475 SPS // ads.setSampleRate(ADS1115_DR_860); //860 SPS } void loop(void) { int16_t adc0,adc1,adc2,adc3; adc0 = ads.getConversionResults(channel0); //P = AIN0, N = GND adc1 = ads.getConversionResults(channel1); //P = AIN1, N = GND adc2 = ads.getConversionResults(channel2); //P = AIN2, N = GND adc3 = ads.getConversionResults(channel3); //P = AIN3, N = GND Serial.print("AIN0: "); Serial.println(adc0); Serial.print("AIN1: "); Serial.println(adc1); Serial.print("AIN2: "); Serial.println(adc2); Serial.print("AIN3: "); Serial.println(adc3); Serial.println(" "); delay(1000); } Step 3. Set the baud rate to 115200. Copy the following code and save it as ArduPy-ads1115.py: Note: For more API, please check here. aip install Seeed-Studio/seeed-ardupy-ads1115 aip build aip flash Step 3. Play With Raspberry Pi¶ Hardware¶ Software¶ The Grove - 16-bit ADC(ADS1115) have the same usage as 4-Channel 16-Bit ADC for Raspberry Pi (ADS1115) and so please follow tutorials here. Step 5. Step 2. "ADS1115 connection successful" : "ADS1115 connection failed"); adc0.initialize(); // initialize ADS1115 16 bit A/D chip // We're going to do single shot sampling adc0.setMode(ADS1115_MODE_SINGLESHOT); // Slow things down so that we can see that the "poll for conversion" code works adc0.setRate(ADS1115_RATE_250); // Set the gain (PGA) +/- 6.144v // Note that any analog input must be higher than –0.3V and less than VDD +0.3 adc0.setGain(ADS1115_PGA_6P144); // ALERT/RDY pin will indicate when conversion is ready pinMode(alertReadyPin,INPUT_PULLUP); adc0.setConversionReadyPinMode(); // To get output from this method, you'll need to turn on the //#define ADS1115_SERIAL_DEBUG // in the ADS1115.h file #ifdef ADS1115_SERIAL_DEBUG adc0.showConfigRegister(); Serial.print("HighThreshold="); Serial.println(adc0.getHighThreshold(),BIN); Serial.print("LowThreshold="); Serial.println(adc0.getLowThreshold(),BIN); #endif } /** Poll the assigned pin for conversion status */ void pollAlertReadyPin() { for (uint32_t i = 0; i

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