ADC Demo

# Overview

This demonstration uses the ADC in software-triggered one-shot conversion of a single channel (ANI2).

# Connections

|  |  |  |  |
| --- | --- | --- | --- |
| **Description** | **MCU Pin** | **Signal Name** | **Direction** |
| Analog Input Ch 2 | 54 | AN2 | Input |
| Potentiometer Analog Input | 52 | AN4 | Input |
| 3.3 V Power | 15 or 16 | 3V3 | Common |
| Ground | 13 or 14 | GND | Common |

# Comments and Suggestions

* Connect an external voltage between 0 and 3.3 V to ANI2 (J18, 54). Alternatively, you can connect ANI2 (J18, 52) to the ANI4 (J18, 52) with a wire or small-value resistor to read the potentiometer voltage (as it is connected to ANI4).





* Try measuring the voltage with a multimeter and evaluate the accuracy of the ADC and software.
* Don’t single step through the **while (ADCS)** statement as this will crash the debugger.