

MCP3008 ADC Setup Guide

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1 Overview

In this tutorial you will learn about the MCP3008 ADC and how to connect and use it with the Keysight Hacking Platform development kit.

2 What is an ADC and why do I need it?

An Analog to Digital Converter (ADC) is a device that can measure an analog voltage and convert the measurement to a digital code that can be used by a microcontroller such as the Raspberry Pi. We need an external ADC to measure analog voltages since the Raspberry Pi does not have its own ADC built-in.