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[Ad9833 Interface With Microcontroller](#)

The AD9833 is written to via a 3-wire serial interface. This serial interface operates at clock rates up to 40 MHz and is compatible with DSP and microcontroller standards. The device operates with a power supply from 2.3 V to 5.5 V. The AD9833 has a power-down function (SLEEP). This function

[AD9833 Datasheet and Product Info | Analog Devices](#)

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[How to Build Your Own Function Generator Using Analog ...](#)

AD9833 Based Function Generator - Schematic Diagram. The complete circuit diagram for the AD9833 and Arduino Based Function Generator is shown below. We are going to use the AD9833 with Arduino to generate our desired frequency. And in this section, we will explain all the details with the help of the schematic; let me give you a brief overview ...

[How to use SPI \(Serial Peripheral Interface\) in Arduino to ...](#)

The MCP4725 is an analogue DAC - it generates a voltage at its output just like a potentiometer. The difference is that this chip sets the output via digital control with a voltage buffer that is controlled from an I2C serial interface. It outputs a proportion of the input voltage. Since it's a 12bit device its resolution is $V_{ref}/4096$.