

Digital to Analog Converter (DAC)

There are different methods for converting digital signals to analog, including R-2R ladder methods and RC techniques.

An Arduino Nano can be used to create a DAC setup, explaining the significance of output voltage stability when connecting loads.

Each digital input bit (connected to the ladder) switches a rung in or out of the network. The output voltage is a weighted sum of the contributions from each bit, determined by the resistor value