

There are 2 ADC input ports on the 40-pin header.

	Pin #37	Pin #40
ODROID-C2	ADC.AIN1	ADC.AIN0
ODROID-C4	ADC.AIN2	ADC.AIN0
ODROID-N2	ADC.AIN3	ADC.AIN2

You can access the ADC inputs via sysfs nodes.

	Pin #37	Pin #40
ODROID-C2	/sys/class/saradc/ch1	/sys/class/saradc/ch0
ODROID-C4	/sys/bus/platform/drivers/meson-saradc/ff809000.saradc/iio:device0/in_voltage2_raw	/sys/bus/platform/drivers/meson-saradc/ff809000.saradc/iio:device0/in_voltage0_raw
ODROID-N2	/sys/bus/platform/drivers/meson-saradc/ff809000.saradc/iio:device0/in_voltage3_raw	/sys/bus/platform/drivers/meson-saradc/ff809000.saradc/iio:device0/in_voltage2_raw

ADC's maximum sample rate is 50kSPS. ODROID-C2 has 10bit resolution (0~1023). ODROID-C4/N2 has 12bit resolution (0~4095).

But the actual sample rate is 8kSPS if you access it via sysfs due to the limited file IO speed.

The ADC inputs are limited to **1.8Volt**. If the input voltage is higher than 1.8Volt, you will fry your ODROID board.

This [WiringPi](#) example code shows how to access the ADC for C/C++ programming.
[Introduction C Tinkering Kit on Ubuntu](#)

Library Source code [WiringPi port for ODROID-C0/C1/C2/XU3/XU4](#)

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