

# Kernel driver adt7411

Supported chips:

- Analog Devices ADT7411  
Prefix: 'adt7411'  
Addresses scanned: 0x48, 0x4a, 0x4b  
Datasheet: Publicly available at the Analog Devices website

Author: Wolfram Sang (based on adt7470 by Darrick J. Wong)

## Description

This driver implements support for the Analog Devices ADT7411 chip. There may be other chips that implement this interface.

The ADT7411 can use an I2C/SMBus compatible 2-wire interface or an SPI-compatible 4-wire interface. It provides a 10-bit analog to digital converter which measures 1 temperature, vdd and 8 input voltages. It has an internal temperature sensor, but an external one can also be connected (one loses 2 inputs then). There are high- and low-limit registers for all inputs.

Check the datasheet for details.

## sysfs-Interface

in0_input	vdd voltage input
in[1-8]_input	analog 1-8 input
temp1_input	temperature input

Besides standard interfaces, this driver adds (0 = off, 1 = on):

adc_ref_vdd	Use vdd as reference instead of 2.25 V
fast_sampling	Sample at 22.5 kHz instead of 1.4 kHz, but drop filters
no_average	Turn off averaging over 16 samples

## Notes

SPI, external temperature sensor and limit registers are not supported yet.