

Kernel driver adt7411

Supported chips:

- * Analog Devices ADT7411

- Prefix: 'adt7411'

- Addresses scanned: 0x48, 0x4a, 0x4b

- Datasheet: Publicly available at the Analog Devices website

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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
templ_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.