

Kernel driver tmp401

Supported chips:

- * Texas Instruments TMP401
Prefix: 'tmp401'
Addresses scanned: I2C 0x4c
Datasheet: <http://focus.ti.com/docs/prod/folders/print/tmp401.html>
- * Texas Instruments TMP411
Prefix: 'tmp411'
Addresses scanned: I2C 0x4c
Datasheet: <http://focus.ti.com/docs/prod/folders/print/tmp411.html>

Authors:

Hans de Goede <hdegoede@redhat.com>
Andre Prendel <andre.prendel@gmx.de>

Description

This driver implements support for Texas Instruments TMP401 and TMP411 chips. These chips implements one remote and one local temperature sensor. Temperature is measured in degrees Celsius. Resolution of the remote sensor is 0.0625 degree. Local sensor resolution can be set to 0.5, 0.25, 0.125 or 0.0625 degree (not supported by the driver so far, so using the default resolution of 0.5 degree).

The driver provides the common sysfs-interface for temperatures (see /Documentation/hwmon/sysfs-interface under Temperatures).

The TMP411 chip is compatible with TMP401. It provides some additional features.

- * Minimum and Maximum temperature measured since power-on, chip-reset

Exported via sysfs attributes tempX_lowest and tempX_highest.

- * Reset of historical minimum/maximum temperature measurements

Exported via sysfs attribute temp_reset_history. Writing 1 to this file triggers a reset.