

Kernel driver max31790

Supported chips:

- Maxim MAX31730

Prefix: 'max31730'

Addresses scanned: 0x1c, 0x1d, 0x1e, 0x1f, 0x4c, 0x4d, 0x4e, 0x4f

Datasheet: <https://datasheets.maximintegrated.com/en/ds/MAX31730.pdf>

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Description

This driver implements support for Maxim MAX31730.

The MAX31730 temperature sensor monitors its own temperature and the temperatures of three external diode-connected transistors. The operating supply voltage is from 3.0V to 3.6V. Resistance cancellation compensates for high series resistance in circuit-board traces and the external thermal diode, while beta compensation corrects for temperature-measurement errors due to low-beta sensing transistors.

Sysfs entries

temp[1-4]_enable	RW	Temperature enable/disable Set to 0 to enable channel, 0 to disable
temp[1-4]_input	RO	Temperature input
temp[2-4]_fault	RO	Fault indicator for remote channels
temp[1-4]_max	RW	Maximum temperature
temp[1-4]_max_alarm	RW	Maximum temperature alarm
temp[1-4]_min	RW	Minimum temperature. Common for all channels. Only temp1_min is writeable.
temp[1-4]_min_alarm	RO	Minimum temperature alarm
temp[2-4]_offset	RW	Temperature offset for remote channels