

# Kernel driver max6639

Supported chips:

- Maxim MAX6639

Prefix: 'max6639'

Addresses scanned: I2C 0x2c, 0x2e, 0x2f

Datasheet: <https://datasheets.maximintegrated.com/en/ds/MAX6639-MAX6639F.pdf>

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## Description

This driver implements support for the Maxim MAX6639. This chip is a 2-channel temperature monitor with dual PWM fan speed controller. It can monitor its own temperature and one external diode-connected transistor or two external diode-connected transistors.

The following device attributes are implemented via sysfs:

Attribute	R/W	Contents
temp1_input	R	Temperature channel 1 input (0..150 C)
temp2_input	R	Temperature channel 2 input (0..150 C)
temp1_fault	R	Temperature channel 1 diode fault
temp2_fault	R	Temperature channel 2 diode fault
temp1_max	RW	Set THERM temperature for input 1 (in C, see datasheet)
temp2_max	RW	Set THERM temperature for input 2
temp1_crit	RW	Set ALERT temperature for input 1
temp2_crit	RW	Set ALERT temperature for input 2
temp1_emergency	RW	Set OT temperature for input 1 (in C, see datasheet)
temp2_emergency	RW	Set OT temperature for input 2
pwm1	RW	Fan 1 target duty cycle (0..255)
pwm2	RW	Fan 2 target duty cycle (0..255)
fan1_input	R	TACH1 fan tachometer input (in RPM)
fan2_input	R	TACH2 fan tachometer input (in RPM)
fan1_fault	R	Fan 1 fault
fan2_fault	R	Fan 2 fault
temp1_max_alarm	R	Alarm on THERM temperature on channel 1
temp2_max_alarm	R	Alarm on THERM temperature on channel 2
temp1_crit_alarm	R	Alarm on ALERT temperature on channel 1
temp2_crit_alarm	R	Alarm on ALERT temperature on channel 2
temp1_emergency_alarm	R	Alarm on OT temperature on channel 1
temp2_emergency_alarm	R	Alarm on OT temperature on channel 2