

Kernel driver max15301

Supported chips:

- Maxim MAX15301

Prefix: 'max15301', 'bmr461'

Addresses scanned: -

Datasheet: <https://datasheets.maximintegrated.com/en/ds/MAX15301.pdf>

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Description

This driver supports hardware monitoring for Maxim MAX15301 controller chip and compatible modules.

The driver is a client driver to the core PMBus driver. Please see Documentation/hwmon/pmbus.rst and Documentation/hwmon/pmbus-core for details on PMBus client drivers.

Usage Notes

This driver does not auto-detect devices. You will have to instantiate the devices explicitly. Please see Documentation/i2c/instantiating-devices.rst for details.

Platform data support

The driver supports standard PMBus driver platform data.

Module parameters

delay

The controller requires a minimum interval between I2C bus accesses. The default interval is set to 100 us. For manual override, the driver provides a writeable module parameter, 'delay', which can be used to set the interval to a value between 0 and 65,535 microseconds.

Sysfs entries

The following attributes are supported. Limits are read-write; all other attributes are read-only.

in1_label	"vin"
in1_input	Measured input voltage.
in1_crit	Critical minimum input voltage.
in1_crit	Critical maximum input voltage.
in1_crit_alarm	Input voltage critical low alarm
in1_crit_alarm	Input voltage critical high alarm
in2_label	"vout1"
in2_input	Measured output voltage.
in2_crit	Critical minimum output Voltage.
in2_crit	Critical maximum output voltage.
in2_crit_alarm	Critical output voltage critical low alarm.
in2_crit_alarm	Critical output voltage critical high alarm.
curr1_label	"iout1"
curr1_input	Measured output current.
curr1_crit	Critical maximum output current.
curr1_crit_alarm	Output current critical high alarm
temp1_input	Measured maximum temperature of all phases.
temp1_max	Maximum temperature limit.
temp1_max_alarm	High temperature alarm
temp1_crit	Critical maximum temperature limit.
temp1_crit_alarm	Critical maximum temperature alarm.