

Kernel driver max16064

Supported chips:

- Maxim MAX16064
Prefix: 'max16064'
Addresses scanned: -
Datasheet: <http://datasheets.maxim-ic.com/en/ds/MAX16064.pdf>

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Description

This driver supports hardware monitoring for Maxim MAX16064 Quad Power-Supply Controller with Active-Voltage Output Control and PMBus Interface.

The driver is a client driver to the core PMBus driver. Please see Documentation/hwmon/pmbus.rst 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.

Sysfs entries

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

in[1-4]_label	"vout[1-4]"
in[1-4]_input	Measured voltage. From READ_VOUT register.
in[1-4]_min	Minimum Voltage. From VOUT_UV_WARN_LIMIT register.
in[1-4]_max	Maximum voltage. From VOUT_OV_WARN_LIMIT register.
in[1-4]_lcrit	Critical minimum Voltage. VOUT_UV_FAULT_LIMIT register.
in[1-4]_crit	Critical maximum voltage. From VOUT_OV_FAULT_LIMIT register.
in[1-4]_min_alarm	Voltage low alarm. From VOLTAGE_UV_WARNING status.
in[1-4]_max_alarm	Voltage high alarm. From VOLTAGE_OV_WARNING status.
in[1-4]_lcrit_alarm	Voltage critical low alarm. From VOLTAGE_UV_FAULT status.
in[1-4]_crit_alarm	Voltage critical high alarm. From VOLTAGE_OV_FAULT status.
in[1-4]_highest	Historical maximum voltage.
in[1-4]_reset_history	Write any value to reset history.
temp1_input	Measured temperature. From READ_TEMPERATURE_1 register.
temp1_max	Maximum temperature. From OT_WARN_LIMIT register.
temp1_crit	Critical high temperature. From OT_FAULT_LIMIT register.
temp1_max_alarm	Chip temperature high alarm. Set by comparing READ_TEMPERATURE_1 with OT_WARN_LIMIT if TEMP_OT_WARNING status is set.
temp1_crit_alarm	Chip temperature critical high alarm. Set by comparing READ_TEMPERATURE_1 with OT_FAULT_LIMIT if TEMP_OT_FAULT status is set.
temp1_highest	Historical maximum temperature.
temp1_reset_history	Write any value to reset history.