

Kernel driver max20751

Supported chips:

- maxim MAX20751

Prefix: 'max20751'

Addresses scanned: -

Datasheet: <https://datasheets.maximintegrated.com/en/ds/MAX20751.pdf>

Application note: <https://pdfserv.maximintegrated.com/en/an/AN5941.pdf>

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Description

This driver supports MAX20751 Multiphase Master with PMBus Interface and Internal Buck Converter.

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.

in1_label	"vin1"
in1_input	Measured voltage.
in1_min	Minimum input voltage.
in1_max	Maximum input voltage.
in1_crit	Critical minimum input voltage.
in1_crit	Critical maximum input voltage.
in1_min_alarm	Input voltage low alarm
in1_crit_alarm	Input voltage critical low alarm
in1_min_alarm	Input voltage low alarm
in1_max_alarm	Input voltage high alarm
in2_label	"vout1"
in2_input	Measured voltage.
in2_min	Minimum output voltage.
in2_max	Maximum output voltage.
in2_crit	Critical minimum output voltage.
in2_crit	Critical maximum output voltage.
in2_min_alarm	Output voltage low alarm
in2_crit_alarm	Output voltage critical low alarm
in2_min_alarm	Output voltage low alarm
in2_max_alarm	Output voltage high alarm
curr1_input	Measured output current.
curr1_label	"iout1"
curr1_max	Maximum output current.
curr1_alarm	Current high alarm
temp1_input	Measured temperature.
temp1_max	Maximum temperature.
temp1_crit	Critical high temperature.
temp1_max_alarm	Chip temperature high alarm
temp1_crit_alarm	Chip temperature critical high alarm

power1_input	Output power.
power1_label	"pout1"