Kernel driver tps40422

Supported chips:

• TI TPS40422

Prefix: 'tps40422'

Addresses scanned: -

Datasheet: https://www.ti.com/lit/gpn/tps40422

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Description

This driver supports TI TPS40422 Dual-Output or Two-Phase Synchronous Buck Controller with PMBus

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.

in[1-2]_label	"vout[1-2]"
in[1-2]_input	Measured voltage. From READ_VOUT register.
in[1-2]_alarm	voltage alarm.
curr[1-2]_input	Measured current. From READ_IOUT register.
curr[1-2]_label	"iout[1-2]"
curr1_max	Maximum current. From IOUT_OC_WARN_LIMIT register.
curr1_crit	Critical maximum current. From IOUT_OC_FAULT_LIMIT register.
curr1_max_alarm	Current high alarm. From IOUT_OC_WARN_LIMIT status.
curr1_crit_alarm	Current critical high alarm. From IOUT_OC_FAULT status.
curr2_alarm	Current high alarm. From IOUT_OC_WARNING status.
temp1_input	Measured temperature. From READ_TEMPERATURE_2 register on page 0.
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_2 on page 0 with OT_WARN_LIMIT if TEMP_OT_WARNING status is set.
temp1_crit_alarm	Chip temperature critical high alarm. Set by comparing READ_TEMPERATURE_2 on page 0 with OT_FAULT_LIMIT if TEMP_OT_FAULT status is set.
temp2_input	Measured temperature. From READ_TEMPERATURE_2 register on page 1.
temp2_alarm	Chip temperature alarm on page 1.