Kernel driver pim4328

Supported chips:

- Flex PIM4328

  Prefix: 'pim4328', 'bmr455'

  Addresses scanned: -

  Datasheet:

https://flexpowermodules.com/resources/fpm-techspec-pim4328

- Flex PIM4820

  Prefixes: 'pim4820'

  Addresses scanned: -

  Datasheet: https://flexpowermodules.com/resources/fpm-techspec-pim4820

- Flex PIM4006, PIM4106, PIM4206, PIM4306, PIM4406

  Prefixes: 'pim4006', 'pim4106', 'pim4206', 'pim4306', 'pim4406'

  Addresses scanned: -

  Datasheet: https://flexpowermodules.com/resources/fpm-techspec-pim4006

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Description

This driver supports hardware monitoring for Flex PIM4328 and compatible digital power interface 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.

Sysfs entries

The following attributes are supported. All attributes are read-only.

in1_label	"vin"
in1_input	Measured input voltage.
in1_alarm	Input voltage alarm.
in2_label	"vin.0"
in2_input	Measured input voltage on input A. PIM4328 and PIM4X06
in3_label	"vin.1"
in3_input	Measured input voltage on input B. PIM4328 and PIM4X06
in4_label	"vcap"
in4_input	Measured voltage on holdup capacitor. PIM4328
curr1_label	"iin.0"
curr1_input	Measured input current on input A. PIM4X06

curr2_label	"iin.1"
curr2_input	Measured input current on input B. PIM4X06
currX_label	"iout1"
currX_input	Measured output current.
currX_alarm	Output current alarm. X is 1 for PIM4820, 3 otherwise.
temp1_input	Measured temperature.
temp1_alarm	High temperature alarm.