

# Kernel driver max16601

Supported chips:

- Maxim MAX16508  
Prefix: 'max16508'  
Addresses scanned: -  
Datasheet: Not published
- Maxim MAX16601  
Prefix: 'max16601'  
Addresses scanned: -  
Datasheet: Not published

Author: Guenter Roeck <[linux@roeck-us.net](mailto:linux@roeck-us.net)>

## Description

This driver supports the MAX16508 VR13 Dual-Output Voltage Regulator as well as the MAX16601 VR13.HC Dual-Output Voltage Regulator chipsets.

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	VCORE input voltage.
in1_alarm	Input voltage alarm.
in2_label	"vout1"
in2_input	VCORE output voltage.
in2_alarm	Output voltage alarm.
curr1_label	"iin1"
curr1_input	VCORE input current, derived from duty cycle and output current.
curr1_max	Maximum input current.
curr1_max_alarm	Current high alarm.
curr[P+2]_label	"iin1.P"
curr[P+2]_input	VCORE phase P input current.
curr[N+2]_label	"iin2"
curr[N+2]_input	VCORE input current, derived from sensor element. 'N' is the number of enabled/populated phases.
curr[N+3]_label	"iin3"
curr[N+3]_input	VSA input current.
curr[N+4]_label	"iout1"
curr[N+4]_input	VCORE output current.
curr[N+4]_crit	Critical output current.
curr[N+4]_crit_alarm	Output current critical alarm.
curr[N+4]_max	Maximum output current.
curr[N+4]_max_alarm	Output current high alarm.
curr[N+P+5]_label	"iout1.P"

curr[N+P+5]_input	VCORE phase P output current.
curr[2*N+5]_label	"iout3"
curr[2*N+5]_input	VSA output current.
curr[2*N+5]_highest	Historical maximum VSA output current.
curr[2*N+5]_reset_history	Write any value to reset curr21_highest.
curr[2*N+5]_crit	Critical output current.
curr[2*N+5]_crit_alarm	Output current critical alarm.
curr[2*N+5]_max	Maximum output current.
curr[2*N+5]_max_alarm	Output current high alarm.
power1_label	"pin1"
power1_input	Input power, derived from duty cycle and output current.
power1_alarm	Input power alarm.
power2_label	"pin2"
power2_input	Input power, derived from input current sensor.
power3_label	"pout"
power3_input	Output power.
temp1_input	VCORE temperature.
temp1_crit	Critical high temperature.
temp1_crit_alarm	Chip temperature critical high alarm.
temp1_max	Maximum temperature.
temp1_max_alarm	Chip temperature high alarm.
temp2_input	TSENSE_0 temperature
temp3_input	TSENSE_1 temperature
temp4_input	TSENSE_2 temperature
temp5_input	TSENSE_3 temperature
temp6_input	VSA temperature.
temp6_crit	Critical high temperature.
temp6_crit_alarm	Chip temperature critical high alarm.
temp6_max	Maximum temperature.
temp6_max_alarm	Chip temperature high alarm.