

# Kernel driver ltc4260

Supported chips:

- Linear Technology LTC4260

Prefix: 'ltc4260'

Addresses scanned: -

Datasheet:

<http://cds.linear.com/docs/en/datasheet/4260fc.pdf>

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## Description

The LTC4260 Hot Swap controller allows a board to be safely inserted and removed from a live backplane.

## Usage Notes

This driver does not probe for LTC4260 devices, since there is no register which can be safely used to identify the chip. You will have to instantiate the devices explicitly.

Example: the following will load the driver for an LTC4260 at address 0x10 on I2C bus #1:

```
$ modprobe ltc4260
$ echo ltc4260 0x10 > /sys/bus/i2c/devices/i2c-1/new_device
```

## Sysfs entries

Voltage readings provided by this driver are reported as obtained from the ADC registers. If a set of voltage divider resistors is installed, calculate the real voltage by multiplying the reported value with  $(R1+R2)/R2$ , where  $R1$  is the value of the divider resistor against the measured voltage and  $R2$  is the value of the divider resistor against Ground.

Current reading provided by this driver is reported as obtained from the ADC Current Sense register. The reported value assumes that a 1 mOhm sense resistor is installed. If a different sense resistor is installed, calculate the real current by dividing the reported value by the sense resistor value in mOhm.

in1_input	SOURCE voltage (mV)
in1_min_alarm	Undervoltage alarm
in1_max_alarm	Overvoltage alarm
in2_input	ADIN voltage (mV)
in2_alarm	Power bad alarm
curr1_input	SENSE current (mA)
curr1_alarm	SENSE overcurrent alarm