## Kernel driver sch5627

Supported chips:

• SMSC SCH5627

Prefix: 'sch5627'

Addresses scanned: none, address read from Super I/O config space

Datasheet: Application Note available upon request

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## **Description**

SMSC SCH5627 Super I/O chips include complete hardware monitoring capabilities. They can monitor up to 5 voltages, 4 fans and 8 temperatures.

In addition, the SCH5627 exports data describing which temperature sensors affect the speed of each fan. Setting pwmX auto channels temp to 0 forces the corresponding fan to full speed until another value is written.

The SMSC SCH5627 hardware monitoring part also contains an integrated watchdog. In order for this watchdog to function some motherboard specific initialization most be done by the BIOS, so if the watchdog is not enabled by the BIOS the sch5627 driver will not register a watchdog device.

The hardware monitoring part of the SMSC SCH5627 is accessed by talking through an embedded microcontroller. An application note describing the protocol for communicating with the microcontroller is available upon request. Please mail me if you want a copy.