

ADM1027

Remote Thermal Controller and Voltage Monitor

Product Overview

For complete documentation, see the data sheet.

The ADM1027 controller is a complete systems monitor and multiple PWM fan controller for noise sensitive applications requiring active system cooling. It can monitor 12 V, 5 V, 2.5 V CPU supply voltage, plus its own supply voltage it can monitor the temperature of up to two remote sensor diodes, plus its own internal temperature. It can measure and control the speed of up to four fans so that they operate at the lowest possible speed for minimum acoustic noise. The automatic fan speed control loop optimizes fan speed for a given temperature. Once the control loop parameters are programmed, the ADM1027 can vary fan speed without CPU intervention.

Features

- Up to 8 Channel Voltage Input ADC
- 3 Zone Temperature Sensor (2 Remote, 1 Local)
- Up to 4 Fan Speed Counters
- Up to 3 Pulse Width Modulation (PWM) Outputs for Fan Speed Control
- SMBus Interface
- Automatic Fan Speed Control Loop for Acoustic Reduction
- Ability to Measure the Speed of a Fan with No Tachometer Output (i.e., a 2-Wire Fan)
- Up to 5 General Purpose Input Pins