Product Overview

ADT7462: System Fan Controller with Flexible Temperature and Voltage Monitor

For complete documentation, see the data sheet.

The ADT7462 is a flexible systems monitor IC, suitable for use in a wide variety of applications. It can monitor temperature in up to three remote locations, as well as its ambient temperature. There are up to four PWM outputs. These can be used to control the speed of a cooling fan by varying the % duty cycle of the PWM drive signal applied to the fan. The ADT7462 supports high frequency PWM for 4-wire fans and low frequency PWM for 2-wire and 3-wire fans. Up to eight TACH inputs can be used to measure the speed of 3-wire and 4-wire fans. There are up to 13 voltage monitoring inputs, ranging from 12 V to 0.9 V.

Features

- One Local and up to Three Remote Temperature Channels, Series Resistance Cancellation on Remote Channels
- Thermal Protection Using THERM Pins
- Up to Four PWM Fan Drive Outputs, Supports Both High and Low Frequency PWM Drives
- Up to Eight TACH Inputs Measures the Speed of 3-wire and 4-wire Fans
- Automatic Fan Speed Control Loop Includes Dynamic TMIN Control
- Monitors up to 13 Voltage Inputs
- Monitors up to 7 VID Inputs Includes VID-on-fly Support
- Bidirectional Reset
- Chassis Intrusion Detect
- SMBus 1.1- and SMBus 1.0-compatible

  For more features, see the data sheet

Applications

- Thermal Management

End Products

- Notebook and Desktop Computers
- Game Consoles
- RFID Readers
- Multi-Channel Analog Receiver/Amplifier

Part Electrical Specifications

Product	Pricing ($/Unit)	Compliance	Status	Data Transmission Standard	I_{CC} Max (mA)	V_{CC} Min (V)	V_{CC} Max (V)	T Min (°C)	T Max (°C)	Package Type
ADT7462ACPZ-REEL	3.8532	Pb-free Halide free	Active	SMBus	4	3	5.5	-40	125	LFCSP-32

For more information please contact your local sales support at www.onsemi.com.

Created on: 7/11/2020