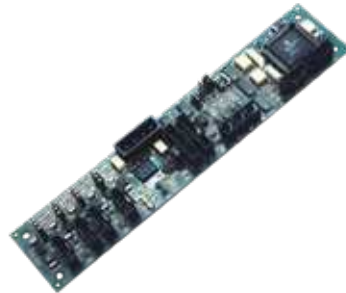# FAN CONTROLLER

DATASHEET

FEATURES

- Capable of operating standalone
- Integrated fan controller and temperature monitoring board with monitoring for:
  - Fan speed control
  - Fan fault monitoring via fan tachometer or fan locked rotor detection
  - Temperature monitoring
- Can accommodate up to four fans and three temperature sensors
- Highly integrated micro controller chip provides logic control and configuration control for the board
- Fan fault signals available as pass/fail or individual flags
- The utility interfaces provide the ability to drive external LEDs, relays, etc. without additional hardware
- Operates off a single 12 V power supply
- Provides a variety of interface options:
  - Opto Isolated
  - Parallel
  - Open Collector
- Locked rotor detection available for three current ranges; current ranges are jumper selectable

TECHNOLOGY OVERVIEW

SPECIFICATIONS	
Board Size	1.5" x 7.3"
Power Consumption	12 V, 95 ma (fans powered externally)
Power Connector	J1, 4-pin disk drive power connector Mating: · Housing: AMP 1-480424-0 · Pin: AMP 60617-4
Fan Connectors	J15, J16, J17, J18 Mating: · Housing: MOLEX# 50-57-9405 · Pin: MOLEX# 16-02-0103
Fan Currents Select	W2, W3, W4, W5 Ranges: 100-300, 300-600, 600-900 ma Mating: · Jumper: AMP# 530153-2
Tach Ranges	HDR2 Ranges: 2400, 3000, 3600, 4200 rpm Mating: · Jumper: AMP# 530153-2
Fan Fail Bits	J13, TTL flags on J13 Mating: · Housing: MOLEX# 50-57-9405 · Pin: MOLEX# 16-02-0103
Fan Utility Interface	J19, open collector, isolated and current source Mating: · Housing: MOLEX# 50-57-9412 · Pin: MOLEX# 16-02-0103

Table continued on next page

TECHNOLOGY OVERVIEW (continued from previous page)

TEMPERATURE SPECIFICATIONS	
Temperature Inputs	3 Individual: J2, J4, J7 Mating: · Housing: MOLEX# 50-57-9402 · Pin: MOLEX# 16-02-0103 Sensor: PHILLIPS NTC type, recommended 2322 640 63103
Temperature Limit	Alarm limits, HDR2, Threshold: 35c, 40c, 50c, 60 Mating: · Jumper: AMP# 530153-2
Fan Speed Control	Half speed to full speed, 10c below alarm (limit user selectable)
Temperature Fail Bits	J14, TTL FLAGS Mating: · Housing: MOLEX# 50-57-9405 · Pin: MOLEX# 16-02-0103
Temperature Utility Interface	J20, open collector, isolated and current source Mating: · Housing: MOLEX# 50-57-9412 · Pin: MOLEX# 16-02-0103
Modes of Operation	Temperature monitoring only, fans only, tach check enabled, half speed enabled

WARRANTY
This product has a one year warranty.

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