IPMI Fan Controller for ATCA Chassis

VT098

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KEY FEATURES

- Dual IPMI busses for redundancy
- Manages up to six fans
- Three PWM signals
- Six TACH inputs
- Eight inputs for IPMI hardware address
- +12V input
- Blue, Red, Amber and Green LEDs
- 32-bit RISC processor
- Two banks of 256K flash for redundancy
- Firmware is field upgradable
- IPMI 2.0 compliant
- External as well as internal WDT
- Available with industrial temp range

The VadaTech VT098 IPMI Fan Controller is compliant with the IPMI 2.0 specification with dual I^2C busses for redundancy. The VT098 is targeted for ATCA chassis implementations and can be modified easily to meet customer requirements.

The VT098 can manage up to six fans. It outputs three PWM signals for a three zone fan tray and it has six TACH inputs.

The module has an external watchdog timer to monitor the CPU in addition to its internal watchdog timer, dual temperature sensor, fan tray monitor and hot swap switch. The hot swap switch input has a +/-15KV ESD-protected switch debouncer.

Once installed in the system the firmware is upgradable from the shelf manager controller.

VadaTech can modify this product to meet special customer requirements without NRE (minimum order placement is required).

Advanced TCA®

SPECIFICATIONS

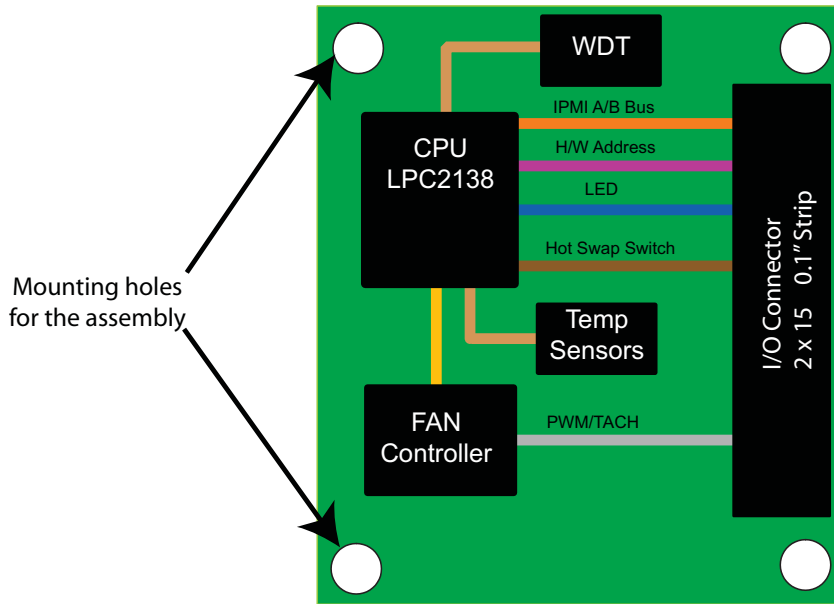| Architecture		
Physical	Dimensions	Width: 2.2 in. (55.88 mm)
		Depth:1.95 in. (49.53 mm)
Type	IPMI FAN Controller	Intelligent fan controller for ATCA-style chassis
Standards		
Module Management	IPMI	IPMI Version 2.0 and PICMG 3.0
Configuration		
Power	VT098	< 1W
Environmental	Temperature	Operating Temperature: 0° to 65° C, Available in Industrial Temp
		Storage Temperature: -40° to +90° C
	Vibration	1G, 5-500Hz each axis
	Shock	30Gs each axis
	Relative Humidity	5 to 95 percent, non-condensing
Features	External interface	2x15 0.1 Terminal Strip
	LEDs	IPMI Management Control Blue, Red, Amber and Green
	Switch	Hot swap switch input with +/-15KV ESD protection
	Zones	Three Zone with six TACH inputs
	Temp Sensor	Two temp sensors on-board
Other		
MTBF		MIL Spec 217-F > 432,000 Hrs.
Certifications		Designed to meet FCC, CE and UL certifications where applicable
Standards		VadaTech is certified to both the ISO9001:2000 and AS9100B:2004 standards
Compliance		RoHS and NEBS
Warranty		Two (2) years
Trademarks		The VadaTech logo is a registered trademark of VadaTech, Inc. Other registered trademarks are the property of their respective owners. AdvancedMC^{TM} and the AdvancedTCA^{TM} logo are trademarks of the PCI Industrial Computers Manufacturers Group. All rights reserved. Specification subject to change without notice.

FIGURE 2. VT098 Functional Block Diagram

ORDERING OPTIONS

VT098 - 000 - 000 - 0HJ

H = Operating Temp

1 = Commercial
2 = Industrial

J = Conformal Coating

0 = None
1 = Humiseal 1A33 Polyurethane
2 = Humiseal 1B31 Acrylic

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