

VT098

IPMI Fan Controller for ATCA Chassis



VT098

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 temperature range

Benefits

- Electrical, mechanical, software, and system-level expertise in house
- Full system supply from industry leader
- AS9100 and ISO9001 certified company



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VT098

The VadaTech VT098 IPMI Fan Controller is compliant with the IPMI 2.0 specification with dual I²C 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 $\pm 15\text{KV}$ ESD-protected switch debouncer.

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

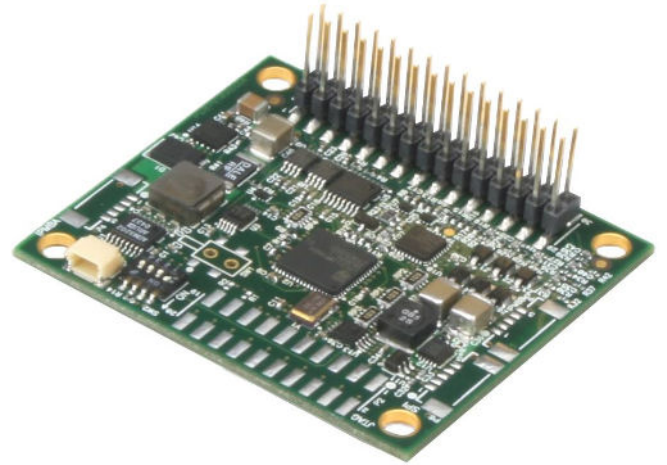


Figure 1: VT098

Block Diagram

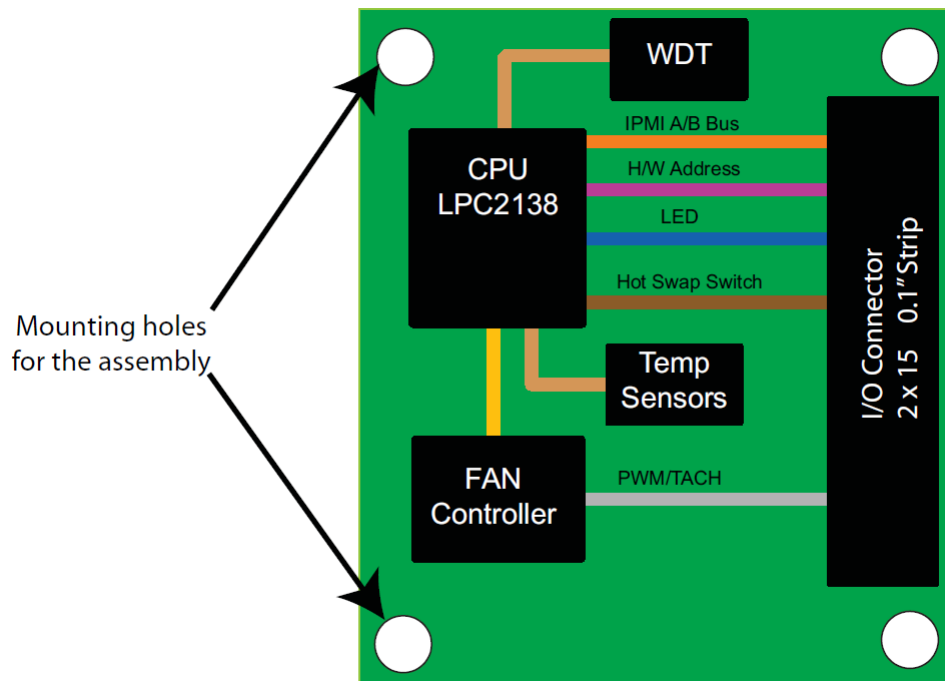


Figure 2: VT098 Functional Block Diagram

Specifications

Architecture		
Physical	Dimensions	Width: 2.2" (55.88 mm)
		Depth: 1.95" (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	See Ordering Options and Environmental Spec Sheet
		Storage Temperature: -40° to +85°C
Features	Vibration	1G, 5-500 Hz each axis
	Shock	30Gs each axis
	Relative Humidity	5 to 95% non-condensing
	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 Hand book 217-F@ TBD hrs	
Certifications	Designed to meet FCC, CE and UL certifications, where applicable	
Standards	VadaTech is certified to both the ISO9001:2015 and AS9100D standards	
Warranty	Two (2) years, see VadaTech Terms and Conditions	

INTEGRATION SERVICES AND APPLICATION-READY PLATFORMS

VadaTech has a full ecosystem of OpenVPX, ATCA and MTCA products including chassis platforms, shelf managers, AMC modules, Switch and Payload Boards, Rear Transition Modules (RTMs), Power Modules, and more. The company also offers integration services as well as pre-configured Application-Ready Platforms. Please contact VadaTech Sales for more information.

Ordering Options

VT098 – A00-000-0HJ

A = Number of Fans		
0 = 6 RPM Sensor 1 = 2 RPM Sensor		
		H = Temperature Range
		1 = Commercial (-5° to 55°C) 2 = Industrial (-20° to 65°C)
		J = Conformal Coating
		0 = No coating 1 = Humiseal 1A33 Polyurethane 2 = Humiseal 1B31 Acrylic

Notes:

Related Products

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