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KEY FEATURES

- 32-bit RISC processor @ 400 MHz
- 64 Mbytes of DDR @ 266Mhz
- 128 Mbytes of flash
- Dual 10/100 Ethernet ports
- RS-232 Debug port
- Linux release 2.6.21
- Field upgradable with dual boot flash
- IPMI 2.0 compliant
- Active/standby redundancy when utilizing two VT009s in the system
- Rich set of management software (refer to the VT001 specification for all software components) such as HPI, RMCP, SNMP, CLI, HTTP, etc.
- Integrated Intelligent Fan Controller
- Integrated Power Entry Module (PEM)

The VT009 is a carrier which utilizes the VadaTech VT002 Shelf Manager. The carrier has integrated on it an Intelligent Fan Controller as well as an Power Entry Module (PEM).

When two VT009s are in the system, they operate in redundant active/standby mode. During operation one VT009 is active while the second one is synchronized in hot standby mode. The VT009 is fully hot-swappable to minimize service down time.

Each IPMI bus has a 64-byte FIFO to allow for a full IPMI packet on each I^2C bus so there is no packet loss during operation.

The VT009 can also run as a protocol analyzer to monitor, inject, capture and validate I^2C traffic on the Intelligent Platform Management Bus (IPMB). A Graphical User Interface (GUI) validates and displays the IPMI packets or schedules IPMI messages for injection into the shelf. The GUI application communicates with the VT009 through the Ethernet port.

Advanced TCA®

SPECIFICATIONS

Architecture		
Physical	Dimensions	Width:3.937 in. (100 mm)
		Depth:11.06 in. (280.7 mm)
Type	Shelf Manager	Manages up to 18 Blades
Standards		
Module Management	IPMI	IPMI Version 2.0 and PICMG 3.0
Configuration		
Power	VT009	5W typical, 5.5W max.
Environmental	Temperature	Operating Temperature: 0° to 65° C (Air flow requirement is to be greater than 100 LFM) 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
Front Panel	Interface Connectors	RS-232 via RJ-45
		10/100 Ethernet RJ-45
	LEDs	IPMI Management Control
		Activity/Link; user LED, etc.
	Push Button	Reset Switch
	Mechanical	Hot Swap Ejector Handle
Software Support	Operating Systems	Linux version 2.6.21
Other		
MTBF	MIL Spec 217-F > TBD 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 and Logos	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.	

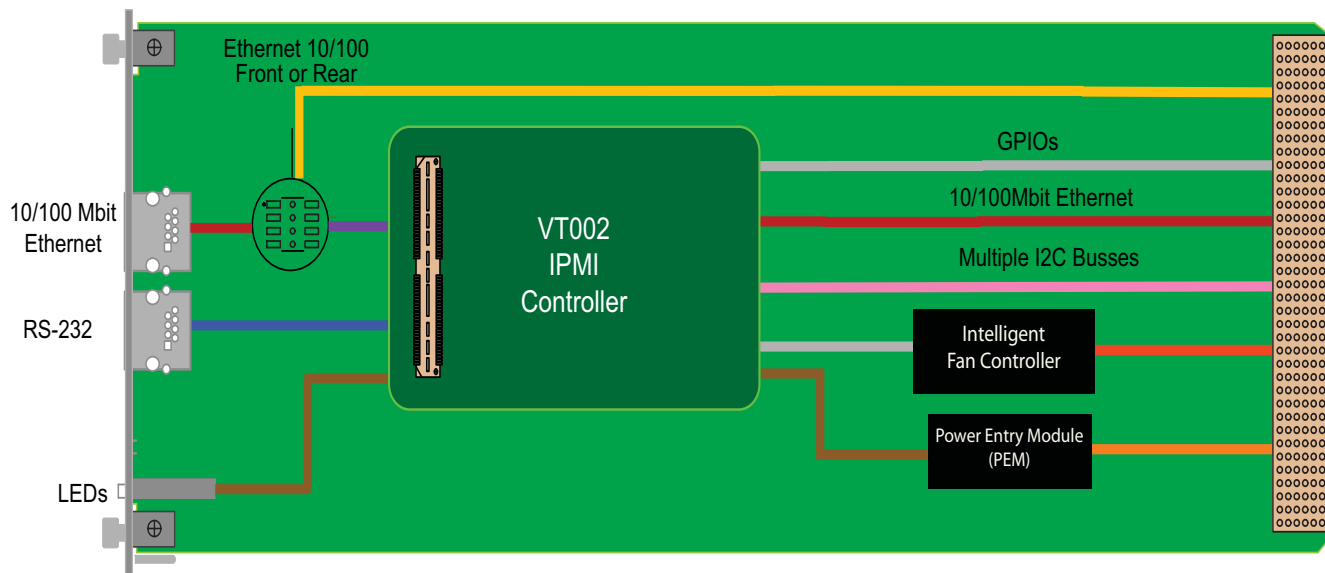**FIGURE 1:** Viewing a captured trace when running the VT009 as an IPMI Protocol Analyzer

FIGURE 2. VT009 Functional Block Diagram

ORDERING OPTIONS

VT009 - A00 - 000 - 0HJ

A = Software option

1 = Shelf Manager
2 = IPMI Protocol Analyzer

H = Operating Temp

1 = Commercial
2 = Industrial

J = Conformal Coating

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

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