Shelf Manager Compatible to Intel® MPCMM0001

VT005

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KEY FEATURES

- Form, fit and functionally compatible to the Intel® MPCMM0001 module
- 5W max power
- 32-bit RISC processor @ 180 MHz
- 64 MB of SDRAM and 128 MB of flash
- Dual 10/100 Ethernet ports
- RS-232 Debug port
- Linux release 2.6.15
- Field upgradable with dual boot flash
- IPMI 2.0 compliant
- Telco alarms
- Isolated DC/DC converter
- Active/standby redundancy when utilizing two VT005s in system
- Rich set of management software (refer to the VT001 specification for all software components) such as HPI, RMCP, SNMP, CLI, HTTP, etc.
- VT005 can run as an IPMI protocol analyzer to monitor all the 40+ I^2C Busses

VadaTech VT005 Shelf Manger is form, fit and functionally compatible to the Intel® Model MPCMM0001. The VT005 is a 5W module. The VT005 can also run as a protocol analyzer to monitor, inject, capture and validate I^2C traffic on the Intelligent Platform Management Bus (IPMB) on **all the radial busses**. 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 VT005 through the Ethernet port.

The VT005 has true radial bussing with dual FPGAs for redundancy. 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.

When two VT005s are in the system, they operate in redundant active/standby mode. During operation one VT005 is active while the second one is synchronized in hot standby mode. The VT005 is fully hot-swappable to minimize service down time.

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

AdvancedTCA®

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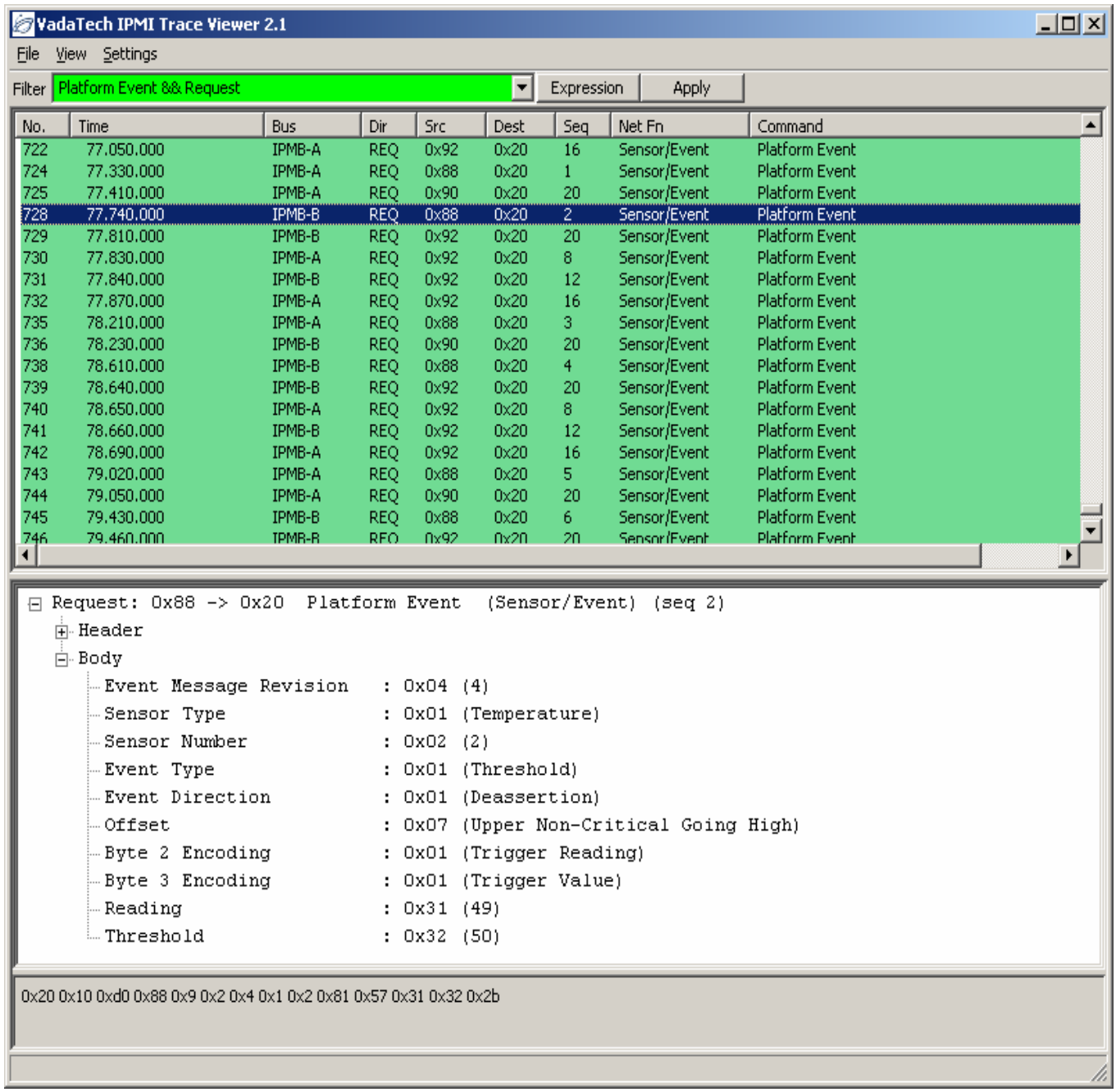
Shelf Manager Compatible to Intel® MPCMM0001

SPECIFICATIONS

Architecture		
Physical	**Dimensions**	Width:5.687 in. (144 mm)
		Depth:11.077 in. (281 mm)
Type	**Shelf Manager**	For Intel compatible chassis
Standards		
Module Management	**IPMI**	IPMI Version 2.0 and PICMG 3.0
Configuration		
Power	**VT005**	4W typical, 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**	DB15 connector for Telco alarm
		RS-232 via RJ-45
		Dual 10/100 Ethernet RJ-45
		Reset Switch
	LEDs	IPMI Management Control
		Activity/Link; user LED, etc.
	Push Button	Reset Switch
	Mechanical	Hot Swap Ejector Handle
Software Support	**Operating Systems**	Linux version 2.6.15
Other		
MTBF	MIL Spec 217-F > 221,000 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 and Logos	The VadaTech logo is a registered trademark of VadaTech, Inc. Other registered trademarks are the property of their respective owners. AdvancedMC™ and the AdvancedTCA™ 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 VT005 as an IPMI Protocol Analyzer



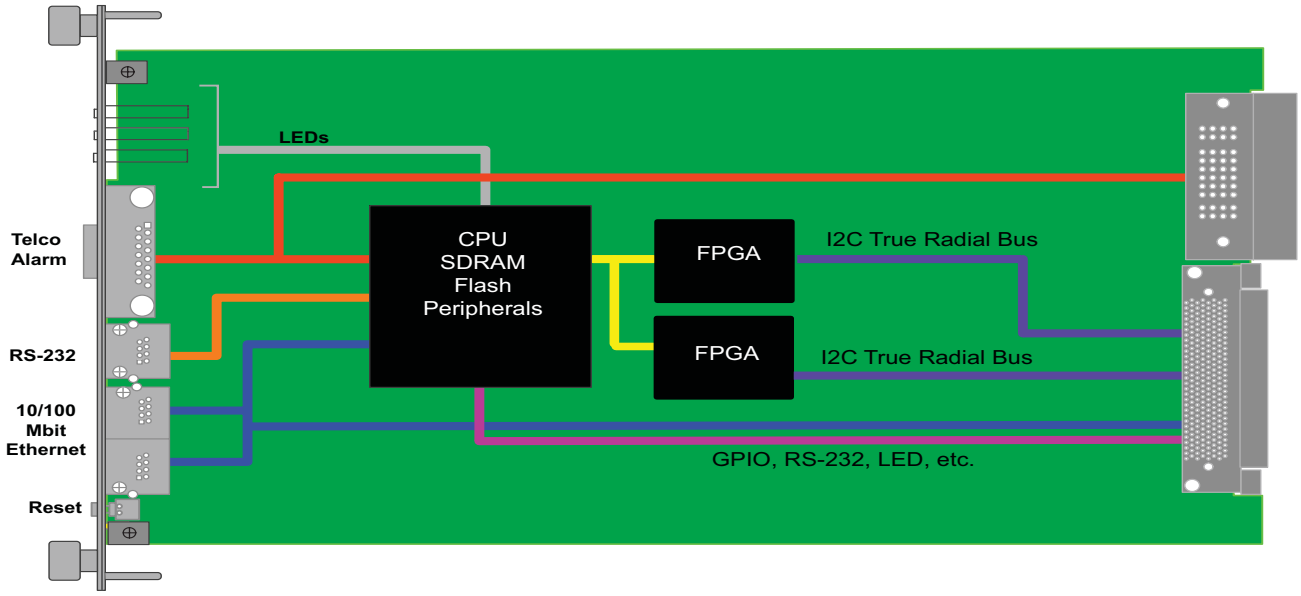


FIGURE 2. VT005 Functional Block Diagram

ORDERING OPTIONS

VT005 - 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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