Shelf Manager Compatible to Intel[®] MPCMM0001







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+ I²C 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 I²C 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 I²C 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.



SPECIFICATIONS

Physical	Dimensions	Width: 5.687 in. (144 mm)				
, nyoloan	Bintonolono	Depth:11.077 in. (281 mm)				
Туре	Shelf Manager	For Intel compatible chassis				
Standards	Chief Manager					
	IDM	IDMUV/regime 0.0 and DIOMO 2.0				
Module Management	IPMI	IPMI Version 2.0 and PICMG 3.0				
Configuration						
Power	VT005	4W typical, 5W max				
	Temperature	Operating Temperature: 0° to 65° C (Air flow requirement is to be greater than 100 LFM) Available in Industrial Temp				
Environmental		Storage Temperature: -40° to +90° C				
	Vibration	1G, 5-500Hz each axis				
	Shock	30Gs each axis				
	Relative Humidity	5 to 95 percent, non-condensing				
		DB15 connector for Telco alarm				
	Interface Connectors	RS-232 via RJ-45				
Front Panel		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					
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FIGURE 1: Viewing a captured trace when running the VT005 as an IPMI Protocol Analyzer

	latform Event && Request				Express	ion Apply		
	Time Bu:		Src	Dest	Seq	Net Fn	Command	
2		4B-A RE			16	Sensor/Event	Platform Event	
•		MB-A RE			1	Sensor/Event	Platform Event	
		4B-A RE			20	Sensor/Event	Platform Event	
		1B-B RE			2	Sensor/Event	Platform Event	
		MB-B RE	-		20	Sensor/Event	Platform Event	
		MB-A RE	· ·		8	Sensor/Event	Platform Event	
		MB-B RE MB-A RE	-		12 16	Sensor/Event Sensor/Event	Platform Event Platform Event	
		MB-A RE			3	Sensor/Event	Platform Event	
		MB-B RE	-		20	Sensor/Event	Platform Event	
		MB-B RE			4	Sensor/Event	Platform Event	
		MB-B RE			20	Sensor/Event	Platform Event	
		4B-A RE			8	Sensor/Event	Platform Event	
	78.660.000 IPM	MB-B RE	-	2 0x20	12	Sensor/Event	Platform Event	
	78.690.000 IPM	MB-A RE	Q 0x92	2 0x20	16	Sensor/Event	Platform Event	
	79.020.000 IPM	4B-A RE	Q 0x88	3 0x20	5	Sensor/Event	Platform Event	
	79.050.000 IPM	4B-A RE	Q 0x90) 0x20	20	Sensor/Event	Platform Event	
		ИB-B RE	Q 0x88		6	Sensor/Event	Platform Event	
	79.460.000 TPM	MB-R RE	O 0x92	2 0x20	20	Sensor/Event	Platform Event	
Re	equest: 0x88 -> 0x20	Platfor	n Event	: (Sens	or/Eve	nt) (seq 2)		
:	Header					, ,, .,		
T								
	Body							
- Event Message Revision		rision :	0x04	(4)				
-Sensor Type		:	0x01	(Temper	ature)			
Sensor Number		:	0x02	(2)				
- Event Type				(Thresh	old)			
Event Direction								
				(Deasse				
- Offset		:	: OxO7 (Upper Non-Critical Going High)					
	-Byte 2 Encoding		: OxO1 (Trigger Reading)					
	- Byte 3 Encoding		0x01	(Trigge	r Valu	e)		
	Reading		0x31					
	-		0x32	(30)				
	Threshold							

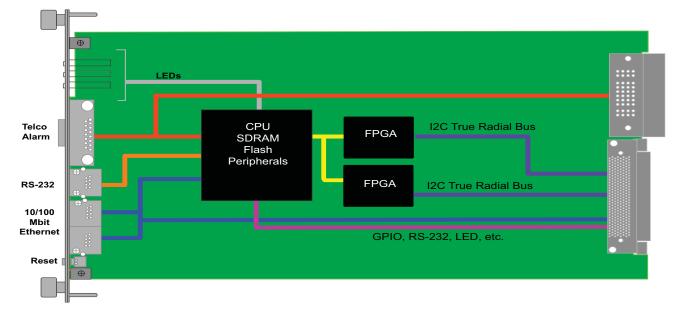


FIGURE 2. VT005 Functional Block Diagram

ORDERING OPTIONS

- A = Software option
 - 1 = Shelf Manager
 - 2 = IPMI Protocol Analyzer

VT005 - A00 - 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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