VT006

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KEY FEATURES

- 32-bit RISC processor @ 180 MHz
- 64 Mbytes of SDRAM
- 128 Mbytes 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 VT006s in system
- Rich set of management software (refer to the VT001 specification for all software components) such as HPI, RMCP, SNMP, CLI, HTTP, etc.
- VT006 can run as an IPMI protocol analyzer to monitor the I^2C Busses

The VT006 is a carrier which utilizes the VadaTech VT001 Shelf Manager. The carrier is designed to fit the Kaparal chassis. The carrier meets all the requirements per ATCA specification including Telco alarms, isolated DC/DC converter, LEDs, etc.

When two VT006s are in the system, they operate in redundant active/standby mode. During operation one VT006 is active while the second one is synchronized in hot standby mode. The VT006 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 VT006 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 VT006 through the Ethernet port.

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SPECIFICATIONS

Architecture		
Physical	**Dimensions**	Width: 5.687 in. (144 mm)
		Depth: 11.077 in. (281 mm)
Type	**Shelf Manager**	For Kaparal chassis; 14 and 5 slot
Standards		
Module Management	**IPMI**	IPMI Version 2.0 and PICMG 3.0
Configuration		
Power	**VT004**	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
		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 > 225,000 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 whiel running the VT006 as an IPMI Protocol Analyzer
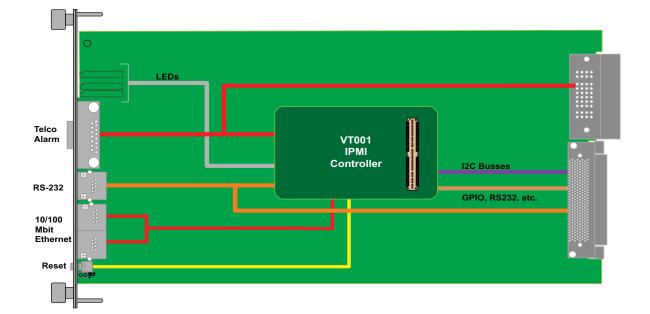
FIGURE 2. VT006 Functional Block Diagram and Front Panel

ORDERING OPTIONS

VT006 - 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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