VT004

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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 VT004s 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.
- VT004 can run as an IPMI protocol analyzer to monitor the I^2C busses

The VT004 is a carrier which utilizes the VadaTech VT001 Shelf Manager. The carrier is designed to fit the LCR chassis. The carrier meets all the requirements per ATCA specification including Telco alarms, isolated DC/DC converter, LEDs, etc.

When two VT004s are in the system, they operate in redundant active/standby mode. During operation one VT004 is active while the second one is synchronized in hot standby mode. The VT004 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 VT004 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 VT004 through the Ethernet port.

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

Advanced TCA®

SPECIFICATIONS

Architecture		
Physical	Dimensions	Width:3.937 in. (100 mm)
		Depth:11.06 in. (280.7 mm)
Type	Shelf Manager	For LCR 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	Micro-DB15 Connector for Telco alarm
		RS-232 via Micro-DB9
		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 > 233,000 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 VT004 as an IPMI Protocol Analyzer
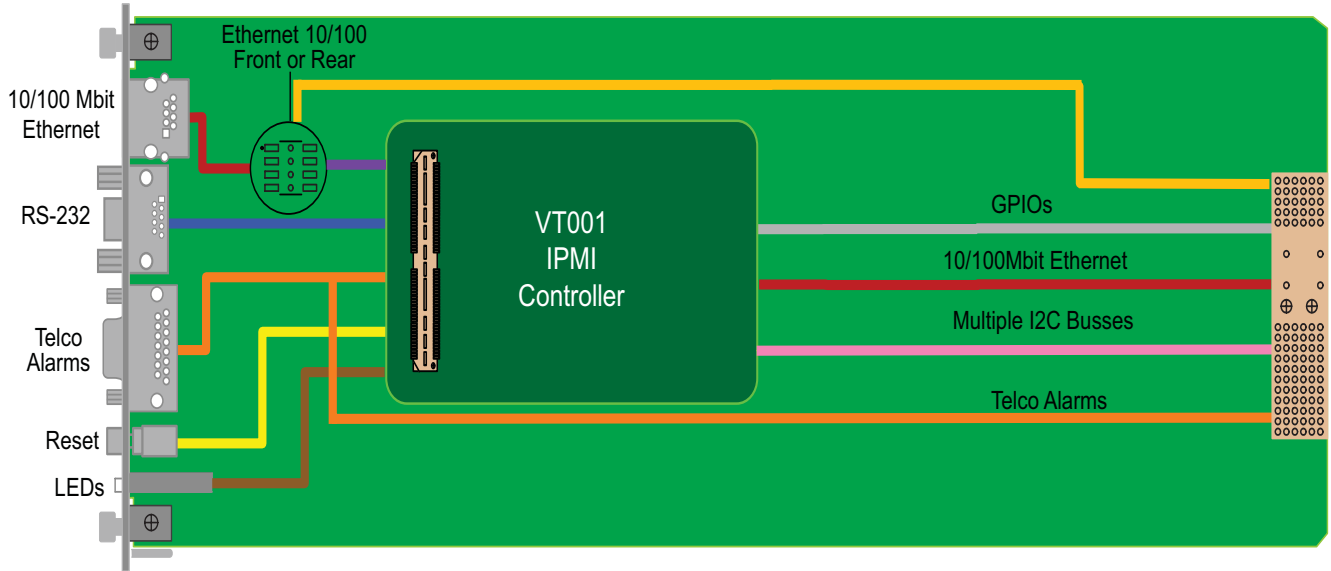
FIGURE 2. VT004 Functional Block Diagram

ORDERING OPTIONS

VT004 - AB0 - 000 - 0HJ

A = Software option

    1 = Shelf Manager
    2 = IPMI Protocol Analyzer

B = Front Panel RJ-45 10/100

    1 = No load
    2 = Include the front RJ-45

H = Operating Temp

    1 = Commercial
    2 = Industrial

J = Conformal Coating

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

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