





KEY FEATURES

- 32-bit RISC processor @ 400 MHz
- 64 Mbytes of DDR @ 266 MHz
- 128 Mbytes of flash
- 32KByte FRAM for log messages
- Three 10/100 Ethernet ports
- RS-232 Debug port
- Linux release 2.6
- Field upgradable with dual boot flash
- IPMI 2.0 compliant
- Telco alarms via VT092
- Isolated DC/DC converter
- Active/standby redundancy when utilizing two VT014s 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.
- VT014 can run as an IPMI protocol analyzer to monitor the I²C busses

The VT014 is a carrier which utilizes the VadaTech VT002 Shelf Manager. The carrier is designed to fit the LCR next generation chassis Chassis. The carrier meets all the requirements per ATCA specification including Telco alarms, isolated DC/DC converter, LEDs, etc.

When two VT014s are in the system, they operate in redundant active/standby mode. During operation one VT014 is active while the second one is synchronized in hot standby mode. The VT014 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 VT014 can also run as a protocol analyzer to monitor, inject, capture and validate I²C 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 VT014 through the Ethernet port.



SPECIFICATIONS

Physical	Dimensions	Width: 3.190 in.					
Physical	Dimensions						
		Depth:11.110 in.					
Туре	Shelf Manager	For LCR next generation chassis (14 and 5 slots)					
Standards							
Module Management	IPMI	IPMI Version 2.0 and PICMG 3.0					
Configuration	·						
Power	VT014	4W typical.					
	Temperature	Operating Temperature: 0° to 65° C (Air flow requirement is to be greater than 50 VT014LFM					
		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					
	Interface Connectors	10/100 Ethernet RJ-45					
		Reset Switch					
Front Panel	LEDs	IPMI Management Control					
		Activity/Link; user LED, etc.					
	Mechanical	Hot Swap Ejector Handle					
Software Support	Operating Systems	Linux version 2.6					
Other							
MTBF	MIL Hand book 217-F >	TBD Hrs.					
Certifications	Designed to meet FCC, C	ed 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 VT014 as an IPMI Protocol Analyzer

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<pre>#5 79.430.000 IPMB-B REQ 0x88 0x20 6 Sensor/Event Platform Event 79.460.000 IPMB-B REQ 0x92 0x20 20 Sensor/Event Platform Event Platform Event (Sensor/Event) (seq 2) Header Body Event Message Revision : 0x04 (4) Sensor Type : 0x01 (Temperature) Sensor Number : 0x02 (2) Event Type : 0x01 (Threshold) Event Direction : 0x01 (Deassertion) Offset : 0x07 (Upper Non-Critical Going High) Byte 2 Encoding : 0x01 (Trigger Reading) Byte 3 Encoding : 0x31 (49) Threshold : 0x32 (50)</pre>	1 3	79.020.000	IPMB-A	REQ	0x88	0x20	5	Sensor/Event	Platform Event	
<pre>A 79.460.000 IPME-R REO 0x92 0x20 20 Sensor/Event Platform Event Request: 0x88 -> 0x20 Platform Event (Sensor/Event) (seq 2) Header Body Event Message Revision : 0x04 (4) Sensor Type : 0x01 (Temperature) Sensor Number : 0x02 (2) Event Type : 0x01 (Threshold) Event Direction : 0x01 (Deassertion) Offset : 0x07 (Upper Non-Critical Going High) Byte 2 Encoding : 0x01 (Trigger Reading) Byte 3 Encoding : 0x01 (Trigger Value) Reading : 0x31 (49) Threshold : 0x32 (50)</pre>		79.050.000	IPMB-A	REQ	0×90	0x20		Sensor/Event		
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- Sensor Number : 0x02 (2) - Event Type : 0x01 (Threshold) - Event Direction : 0x01 (Deassertion) - Offset : 0x07 (Upper Non-Critical Going High) - Byte 2 Encoding : 0x01 (Trigger Reading) - Byte 3 Encoding : 0x01 (Trigger Value) - Reading : 0x31 (49) - Threshold : 0x32 (50)	E	Header	> Ox2O Plat	form	Event	(Sens	or/Eve	nt) (seq 2)		
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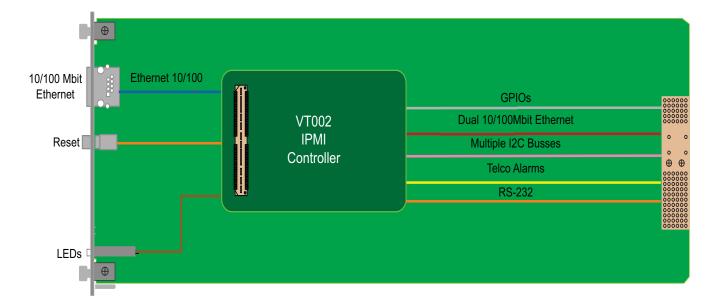


FIGURE 2. VT014 Functional Block Diagram

ORDERING OPTIONS

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

VT014 - 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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Date:. January 2010 Pass two