Shelf Manager for ELMA ATCA Chassis

VT019

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ELMA
Your Solution Partner

VT019KEY FEATURES

- For ELMA ATCA bused or radial chassis
- 5W max power
- 32-bit RISC processor @ 400MHz
- 64 MB of DDR @ 266Mhz
- 32Kbyte FRAM for log messages
- Quad 10/100 Ethernet ports
- RS-232 Debug port
- Linux release 2.6.21
- Field upgradable with dual boot flash
- IPMI 2.0 compliant
- Telco alarms
- Isolated DC/DC converter
- Active/standby redundancy when utilizing two VT019s in system
- Rich set of Management software (refer to the VT002 specification for all software components) such as HPI, RMCP, SNMP, CLI, HTTP, etc.
- VT019 can run as an IPMI protocol analyzer to monitor all the 40+ I^2C busses

The VadaTech VT019 is VadaTech Shelf Manager for ELMA chassis. The VT019 is a 5W module. The VT019 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 VT019 through the Ethernet port.

The VT019 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 VT019s are in the system, they operate in redundant active/standby mode. During operation one VT019 is active while the second one is synchronized in hot standby mode. The VT019 is fully hot-swappable to minimize service down time.

Lithium Battery and/or Super CAP for the Real Time Clock.

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

AdvancedTCA®

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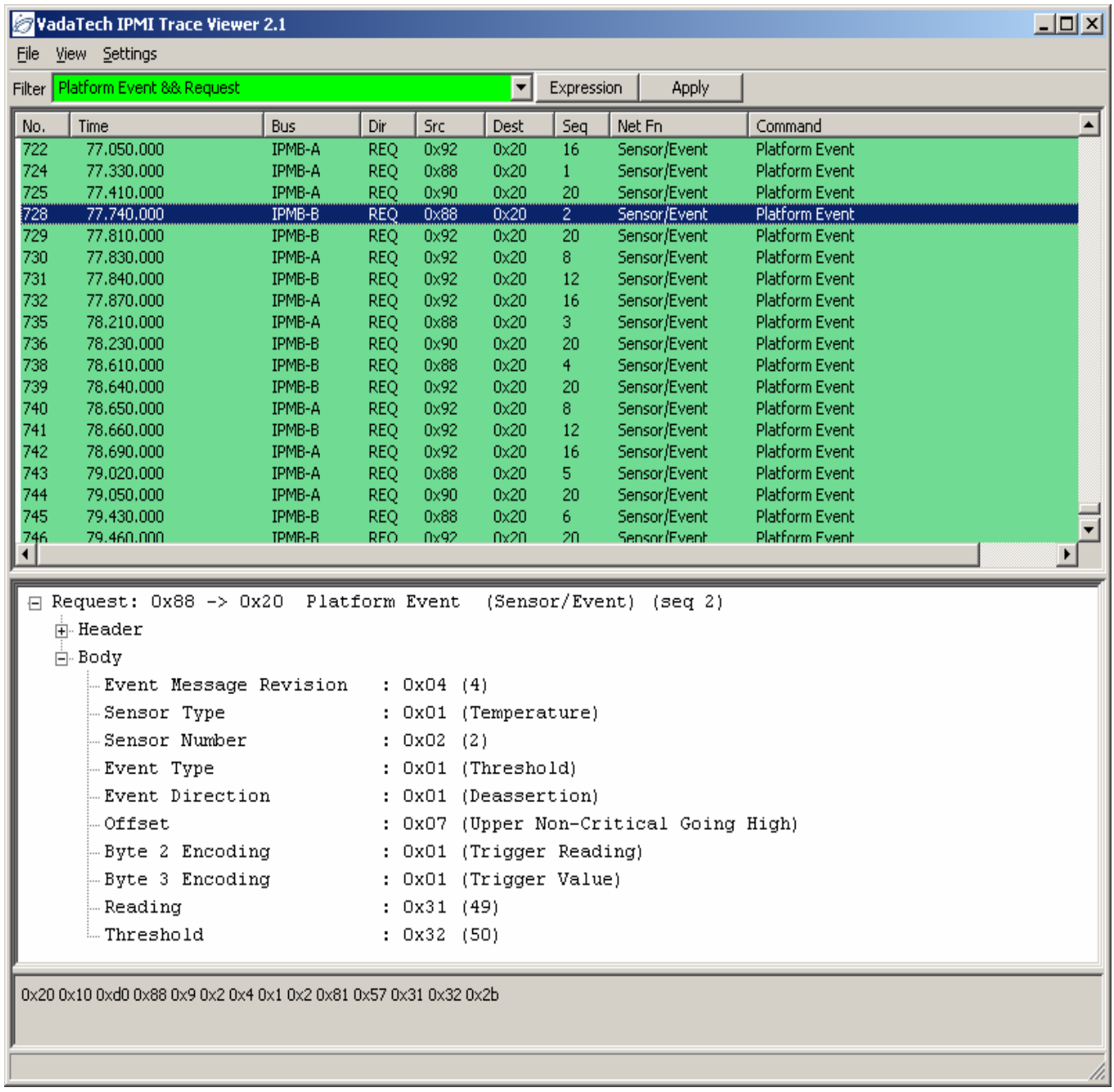
SPECIFICATIONS

Architecture		
Physical	**Dimensions**	Width: 3.07 in. (78 mm)
		Depth:11.466 in. (291 mm)
Type	**Shelf Manager**	For ELMA chassis
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 Micro DB-9
		10/100 Ethernet via RJ-45
		Reset Switch
		Alarm Clear
	LEDs	IPMI Management Control
		Activity/Link; user LED, etc.
	Push Button	Reset Switch and Telco Alarm Clear
	Mechanical	Hot Swap Ejector Handle
Software Support	**Operating Systems**	Linux version 2.6.15
Other		
MTBF	MIL Handbook 217-F > 220,000 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 while running the VT019 as an IPMI Protocol Analyzer



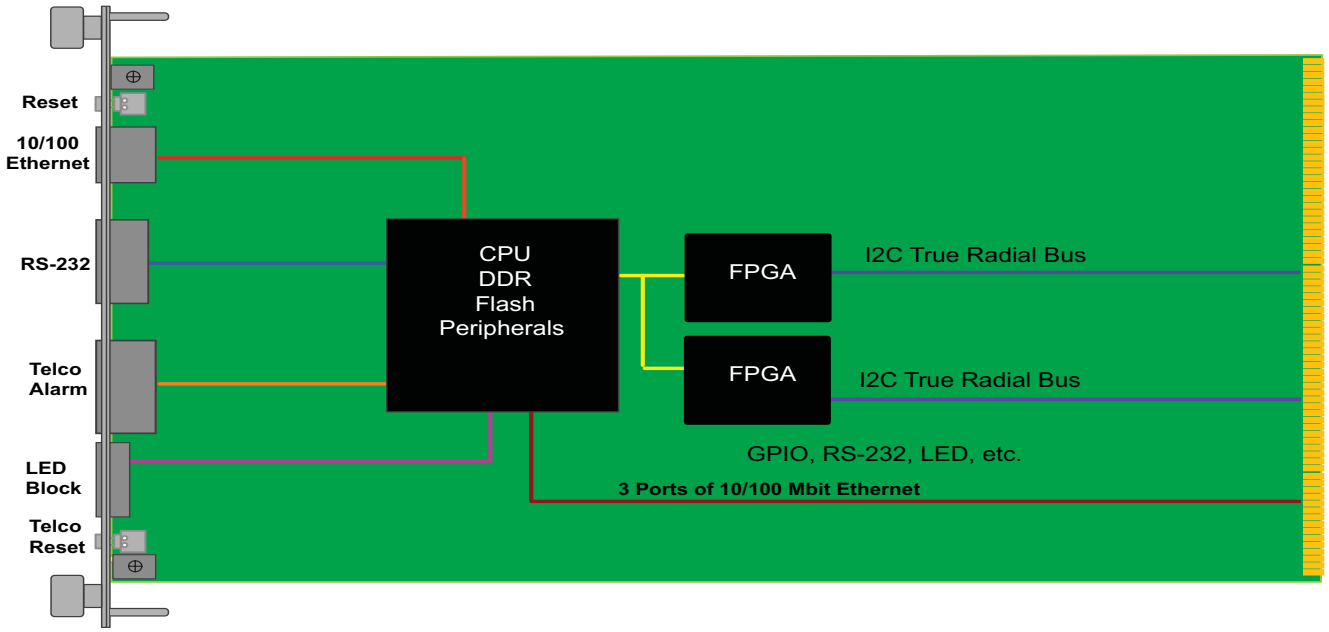


FIGURE 2. VT019 Functional Block Diagram

ORDERING OPTIONS

VT019 - AB0 - 000 - 0HJ

A = Software option

1 = Shelf Manager
2 = IPMI Protocol Analyzer

B = Battery

0 = Lithium
1 = Super CAP
3 = Lithium and Super CAP

H = Operating Temp

1 = Commercial
2 = Industrial

J = Conformal Coating

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

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