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™ THE POWER OF VISION

VT018 KEY FEATURES

- Form, fit and functionally compatible to the Intel® MPCMM0002 Module

- 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 VT018s in system

- Rich set of Management software (refer to the VT002 specification for all software components) such as HPI, RMCP, SNMP, CLI, HTTP, etc.

- VT018 can run as an IPMI protocol analyzer to monitor all the 40+ I^2C busses

The VadaTech VT018 is VadaTech next generation Shelf Manager (previous generation VT008) which is form, fit and functionally compatible to the Intel® Model MPCMM0002. The VT018 is a 5W module. The VT018 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 VT018 through the Ethernet port.

The VT018 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 VT018s are in the system, they operate in redundant active/standby mode. During operation one VT018 is active while the second one is synchronized in hot standby mode. The VT018 is fully hot-swappable to minimize service down time.

Advanced TCA®

SPECIFICATIONS

Architecture		
Physical	Dimensions	Width: 5.685 in. (144 mm)
		Depth:11.096 in. (281 mm)
Type	Shelf Manager	For Intel compatible 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 RJ-45
		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 > 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^{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 while running the VT018 as an IPMI Protocol Analyzer
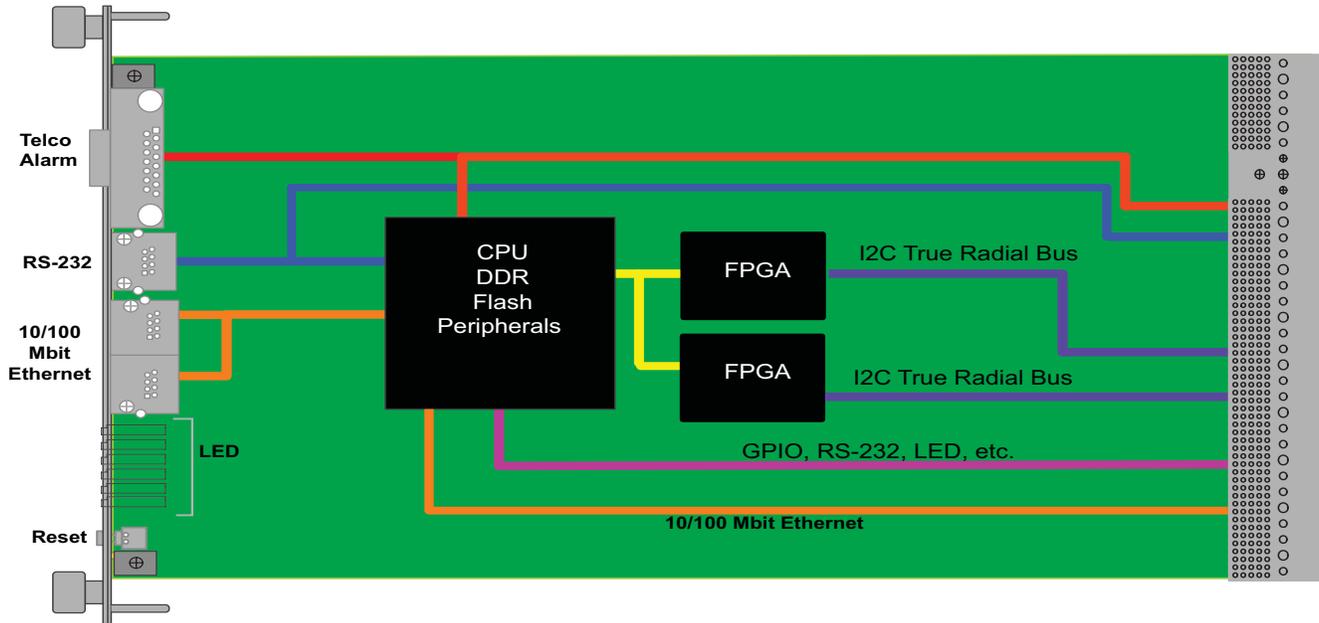
FIGURE 2. VT018 Functional Block Diagram

ORDERING OPTIONS

VT018 - 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