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+ I²C 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 I²C 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 I²C bus so there is no packet loss during operation.

When two VT018s are in the system, they operate in redundant active/standyby 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.
# SPECIFICATIONS

<table>
<thead>
<tr>
<th><strong>Architecture</strong></th>
<th><strong>Dimensions</strong> Width: 5.685 in. (144 mm) Depth:11.096 in. (281 mm)</th>
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<tbody>
<tr>
<td><strong>Type</strong></td>
<td>Shelf Manager For Intel compatible chassis</td>
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<tr>
<td><strong>Standards</strong></td>
<td>Module Management IPMI IPMI Version 2.0 and PICMG 3.0</td>
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<td><strong>Configuration</strong></td>
<td><strong>Power</strong> VT004 4W typical, 5W max</td>
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<td><strong>Environmental</strong> 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</td>
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<td>Vibration 1G, 5-500Hz each axis</td>
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<td>Shock 30Gs each axis</td>
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<td>Relative Humidity 5 to 95 percent, non-condensing</td>
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<td><strong>Front Panel</strong> 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</td>
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<td><strong>Other</strong></td>
<td><strong>MTBF</strong> MIL Spec 217-F &gt; 220,000 Hrs.</td>
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<td><strong>Certifications</strong> Designed to meet FCC, CE and UL certifications where applicable Standards VadaTech is certified to both the IS09001:2000 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.</td>
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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