The VadaTech VT096 IPMI Fan Controller is compliant with the IPMI 2.0 specification and includes dual I²C busses for redundancy. The VT096 is targeted for µTCA chassis implementations and can easily be modified to meet customer requirements.

The VT096 can manage up to ten fans. It outputs five PWM signals for a five zone fan tray and it has ten TACH inputs†. The module has an external watchdog timer to monitor the CPU in addition to its internal watchdog timer, dual temperature sensors, fan tray and hot swap switch. The hot swap switch input has a +/-15KV ESD-protected switch debouncer. The module has three additional I²C busses that can be routed to external devices such as temp sensors to monitor the µTCA chassis.

Once installed in the system the firmware is upgradable from the shelf manager controller.

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

† VT096 can be modified for more fan zone as well as to bring in more TACH inputs.
### IPMI Fan Controller for µTCA Chassis

### SPECIFICATIONS

#### Architecture

<table>
<thead>
<tr>
<th>Physical</th>
<th>Dimensions</th>
<th>Width: 0.725 in. (18.42 mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Depth: 14.5 in. (367 mm)</td>
</tr>
</tbody>
</table>

#### Type

- IPMI FAN Controller
- Intelligent fan controller for µTCA style chassis

#### Standards

- Module Management: IPMI, IPMI Version 2.0, PICMG 3.0 and µTCA Cooling Unit (CU) specification

#### Configuration

<table>
<thead>
<tr>
<th>Power</th>
<th>VT096</th>
<th>&lt; 1W</th>
</tr>
</thead>
</table>

#### Environmental

<table>
<thead>
<tr>
<th>Temperature</th>
<th>Operating Temperature: 0° to 65° C, Available in Industrial Temp</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vibration</td>
<td>1G, 5-500Hz each axis</td>
</tr>
<tr>
<td>Shock</td>
<td>30Gs each axis</td>
</tr>
<tr>
<td>Relative Humidity</td>
<td>5 to 95 percent, non-condensing</td>
</tr>
</tbody>
</table>

#### Features

- **External interface**: Molex EBBI 50D, Tyco 0.1” header and Molex 1.0 ZIF
- **LEDs**: IPMI Management Control Blue, Red, Amber and Green
- **Switch**: Hot swap switch input with +/-15KV ESD protection
- **Zones**: Five zones with ten TACH inputs
- **Temp Sensor**: Two temp sensors on board

#### Other

- **MTBF**: MIL Spec 217-F > 409,000 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 NEBA
- **Warranty**: Two (2) years

#### Trademarks

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FIGURE 2. VT096 Functional Block Diagram

ORDERING OPTIONS

VT096 - 000 - 000 - 0HJ

H = Operating Temp
   1 = Commercial
   2 = Industrial

J = Conformal Coating
   0 = None
   1 = Humiseal 1A33 Polyurethane
   2 = Humiseal 1B31 Acrylic