UTC007

KEY FEATURES

- JTAG Switch Module (JSM) per µTCA specification
- Provides Transparent Communications between the Arbitrated Master and a selected Secondary Port
- Mates directory to the Chassis that have the JSM connector
- Support for 12 AMC, 2 MCH, 4 Power Module, 2 Cooling units and Front/Rear (21 Ports)
- Operations via Front/Back, or the two MCH
- Autodetection of Port Presence
- Three Arbitrated Master ports
- Configuration Mode Uses IEEE 1149.1 TAP controller
- Operation up to 50MHz
- LED for Activity, Master Grant, Secondary port selection

The UTC007 power comes from the management (+3.3V) or the payload (+12V) depending on the chassis configuration. The UTC007 consumes less then 55mW. The front connector is standard 0.1 header which mates to most JTAG modules.

There are three Arbitrated Master ports (2 MCH and the front/rear connector). The secondary ports are auto detected if they are present. The modules provides transparent communication between the Master and a selected secondary port. All configuration modes uses IEEE1149.1 TAP controller. The JTAG can operate with up to 50MHz clock.

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

<table>
<thead>
<tr>
<th>Architecture</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Physical</strong></td>
<td>Dimensions</td>
</tr>
<tr>
<td></td>
<td>Single-Width</td>
</tr>
<tr>
<td></td>
<td>Width: 2.89 in. (73.5 mm)</td>
</tr>
<tr>
<td></td>
<td>Depth: 7.11 in. (180.6 mm)</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>µTCA JSM</td>
</tr>
<tr>
<td></td>
<td>21 ports</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Standards</th>
<th>µTCA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>JSM</td>
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</table>

<table>
<thead>
<tr>
<th>Configuration</th>
<th>Power</th>
</tr>
</thead>
<tbody>
<tr>
<td>µTCA</td>
<td>55mW</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Environmental</th>
<th>Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating</td>
<td>0° to 65° C</td>
</tr>
<tr>
<td>Storage</td>
<td>-40° to +90° C</td>
</tr>
</tbody>
</table>

| Vibration     | 1G, 5-500Hz each axis |
| Shock         | 30Gs each axis |
| Relative Humidity | 5 to 95 percent, non-condensing |

<table>
<thead>
<tr>
<th>Front Panel</th>
<th>Interface Connectors</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>10 Pin right angle 0.1 spacing</td>
</tr>
</tbody>
</table>

| LEDs          | Activity, Master port, and secondary port selection |

| Mechanical    | Captive Screw tie down |

<table>
<thead>
<tr>
<th>Software Support</th>
<th>Operating Systems</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>Linux, Windows, Solaris and VxWorks</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Other</th>
<th>MTBF</th>
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</thead>
<tbody>
<tr>
<td>MIL Spec 217-F</td>
<td>TBD Hrs.</td>
</tr>
</tbody>
</table>

| 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. |

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µTCA JTAG Switch Module (JSM)

FIGURE 1. UTC-007 Functional Block Diagram

FIGURE 2. UTC007 Front Panel
## ORDERING OPTIONS

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>UTC007 - A00 - 000 - 00J</td>
<td></td>
</tr>
<tr>
<td>A = Power</td>
<td></td>
</tr>
<tr>
<td>0 = From Management</td>
<td></td>
</tr>
<tr>
<td>1 = From Payload</td>
<td></td>
</tr>
<tr>
<td>J = Conformal Coating</td>
<td></td>
</tr>
<tr>
<td>0 = None</td>
<td></td>
</tr>
<tr>
<td>1 = Humiseal 1A33 Polyurethane</td>
<td></td>
</tr>
<tr>
<td>2 = Humiseal 1B31 Acrylic</td>
<td></td>
</tr>
</tbody>
</table>

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