KEY FEATURES

- ATCA rear I/O Module for Blades (i.e. Sun Microsystems Netra Blade CP3260, CP3220, VadaTech ATC114, etc.)
- DVI-I interface (VGA and DVI-D)
- Resolution @ 1920x1200
- Dual removable on board 2.5\" SAS/SATA Disk
- Disks can run as independent or as RAID 0 or 1
- Two port USB 2.0 high speed (480Mbit/s)
- Front Blade Dual GbE to RJ-45
- Front Management RS-232 to RJ-45
- IPMI 2.0 Management Controller
- RoHS compliant

The ART116 is a Rear Transition Module (RTM) module for ATCA Blades with Common Pinout definition on Zone three such as Sun Microsystems Netra CP3260, CP3220, VadaTech ATC114, etc. It brings expandability to the Blades/Carriers via Rear I/O. The ART116 has dual removable 2.5\" SAS/SATA drive for storage, Management RS-232 port via RJ-45, DVI-I, and USB 2.0 high speed ports.

The dual disk can run as independent or as RAID 0 or 1.

Further, the ART116 routes the front Blade GbE ports, LAN management to the rear transition.

The GPU (Graphic Processing Unit) is 2D 24-bit color with up to 1920x1200 resolution with capability to drive Dual Monitor. The GPU has 128MB of DDR memory.

The USB is 2.0 with two ports of High-Speed (480Mbits/s).

The SAS HBA has one port routed to each of the on board disks. The Disks are removable for ease of maintainability.
# ATCA Rear I/O Transition Module

## SPECIFICATIONS

| Architecture | Physical Dimensions | Width: 12.687in. (322.25 mm)  
|              |                     | Depth: 3.701 in. (94.00 mm)  
| Type         | Rear Transition     | I/O Expansion  
| Standards    | ATCA Type           | ATCA Rear Transition  
| Configuration | Power               | ART116  
|              | typical 16W, 20W MAX  
| Environmental | Temperature         | Operating Temperature: 0° to 65°C  
|              | Storage Temperature: -40° to +90°C  
|              | Vibration           | 1G, 5-500Hz each axis  
|              | Shock               | 30G/s each axis  
|              | Relative Humidity   | 5 to 95 percent, non-condensing  
| Rear Panel   | Interface Connectors | Management RS-232  
|              |                     | Dual 1000 GbE (RJ-45)  
|              |                     | Dual USB (Type A receptacles)  
|              |                     | DVI via DVI Connector (VGA and DVI-D)  
|              |                     | Dual Disk SAS/SATA removable  
|              |                     | Management LAN (RJ-45)  
|              | LEDs                | LNK/ACT per GbE port  
|              |                     | IPMI Management  
|              |                     | SAS ACT/FLT  
|              |                     | LAN Management LNK/ACT  
| Other        | Mechanical          | Hot Swap Ejector Handle  
| MTBF         | MIL Spec 217-F @ TBD 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.  

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Email: info@vadatech.com  •  www.vadatech.com
FIGURE 1. ART116 Functional Block Diagram

Table 1. Comparison chart between ART112/113/114/115/116

<table>
<thead>
<tr>
<th>Model</th>
<th>No. of Disks</th>
<th>No. of Host GbE Ports</th>
<th>No. of USB ports</th>
<th>No. of host serial ports</th>
<th>No. of Graphic Interfaces</th>
<th>Serial Management</th>
<th>Ethernet Management</th>
<th>Front Panel SAS Expander</th>
<th>Front Panel PCIe Expander</th>
<th>10GbE Ports</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART112</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>0</td>
<td>Single VGA</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>ART113</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>2</td>
<td>Single VGA</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>ART114</td>
<td>2</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>None</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>0</td>
</tr>
<tr>
<td>ART115</td>
<td>1*</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>Dual DVI/VGA</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>2</td>
</tr>
<tr>
<td>ART116</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>0</td>
<td>Single DVI-I</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

*The ART115 and ART116 Disks are removable via the front panel
**ORDERING OPTIONS**

<table>
<thead>
<tr>
<th>ART116 - A0C - DE0 - 00J</th>
</tr>
</thead>
<tbody>
<tr>
<td>A = SATA Drive Capacity</td>
</tr>
<tr>
<td>0 = None</td>
</tr>
<tr>
<td>1 = 250 GB</td>
</tr>
<tr>
<td>2 = 500 GB</td>
</tr>
<tr>
<td>3 = Reserved</td>
</tr>
<tr>
<td>4 = Reserved</td>
</tr>
<tr>
<td>5 = Reserved</td>
</tr>
<tr>
<td>6 = Reserved</td>
</tr>
<tr>
<td>7 = 2.5” Solid State Drive (SSD)</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>E = Disk</td>
</tr>
<tr>
<td>0 = Single Disk</td>
</tr>
<tr>
<td>1 = Dual Disk**</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

*C* Available for the SSD option only

**Both disks will be identical**

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