ART121 – ATCA Rear Transition Module (RTM) for ATC121

KEY FEATURES

- AdvancedTCA RTM for ATC121
- Layer 2 managed Ethernet switch
- USB Ports
- Dual 10GbE
- I²C Interface to Chassis CDM, Temp Sensors, etc.
- VGA
- RoHS compliant

Benefits of Choosing VadaTech

- Expertise in RTM design
- Full ecosystem of AdvancedTCA switches, processors, RTMs, chassis, and shelf managers
- Design utilizes proven VadaTech subcomponents and engineering techniques
- Electrical, mechanical, software, and system-level expertise in house
- AS9100 and ISO9001 certified company

The ART121 is a Rear Transition Module (RTM) I/O expander for VadaTech's ATC121. It includes dual 10GbE, Layer 2 managed switch, USB 2.0 and USB 1.1 interfaces and I²C buses to read chassis CDM, Temp sensors, etc.

The Layer 2 managed switch has dual GbE via RJ-45 and dual Fiber via SFF ports.
## SPECIFICATIONS

<table>
<thead>
<tr>
<th>Architecture</th>
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<tbody>
<tr>
<td><strong>Physical</strong></td>
<td>Dimensions</td>
<td></td>
</tr>
<tr>
<td>Width</td>
<td>12.69 in. (322.25 mm)</td>
<td></td>
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<tr>
<td>Depth</td>
<td>3.7 in. (94mm)</td>
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</tr>
<tr>
<td><strong>Type</strong></td>
<td>ATCA RTM</td>
<td>I/O Module</td>
</tr>
<tr>
<td><strong>Standards</strong></td>
<td></td>
<td></td>
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<tr>
<td>ATCA Type</td>
<td>ATCA RTM</td>
<td></td>
</tr>
<tr>
<td>PCIe Lanes</td>
<td>PCIe x4</td>
<td></td>
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<thead>
<tr>
<th>Configuration</th>
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<tbody>
<tr>
<td><strong>Power</strong></td>
<td>ART121</td>
<td>Approximately 15W</td>
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<tr>
<td><strong>Environmental</strong></td>
<td></td>
<td>Operating Temperature: 0° to 65° C (airflow requirement is &gt; 400LFM)</td>
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<tr>
<td>Vibration</td>
<td>1G, 5 to 500 Hz on each axis</td>
<td></td>
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<tr>
<td>Shock</td>
<td>30Gs each axis</td>
<td></td>
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<tr>
<td>Relative Humidity</td>
<td>5 to 95 percent, non-condensing</td>
<td></td>
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<tr>
<td><strong>Front Panel</strong></td>
<td>Interface Connectors</td>
<td>Dual SFP+, dual SFF, dual RJ-45, dual MicroUSB (serial ports), dual USB 1.1, five USB 2.0 via DB-25</td>
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<tr>
<td></td>
<td>LEDS</td>
<td>IPMI Management Control</td>
</tr>
<tr>
<td></td>
<td>Mechanical</td>
<td>Hot Swap Ejector Handle</td>
</tr>
</tbody>
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<tr>
<th>Other</th>
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<tbody>
<tr>
<td><strong>MTBF</strong></td>
<td>MIL Handbook 217-F @ TBD Hrs</td>
<td></td>
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<tr>
<td><strong>Certifications</strong></td>
<td></td>
<td>Designed to meet FCC, CE and UL certifications where applicable</td>
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<tr>
<td><strong>Standards</strong></td>
<td>VadaTech is certified to both the ISO9001:2000 and AS9100B:2004 standards</td>
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<tr>
<td><strong>Warranty</strong></td>
<td>Two (2) years</td>
<td></td>
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<td><strong>Trademarks and Disclaimer</strong></td>
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**INTEGRATION SERVICES AND APPLICATION-READY PLATFORMS**

VadaTech has a full ecosystem of ATCA and μTCA products including chassis platforms, shelf managers, AMC modules, Switch and Payload Boards, Rear Transition Modules (RTM), Power Modules, and more. The company also offers integration services as well as pre-configured Application-Ready Platforms. Please contact VadaTech Sales for more information.

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ORDERING OPTIONS

ART121 – A00 – 000 – 0HJ

A = Dual SFP+ Transceivers
0 = None
1 = 10GBASE-SR (10/1GbE)
2 = 10GBASE-LR (10/1GbE)
3 = 10GBASE-SR (10GbE ONLY)
4 = 10GBASE-LR (10GbE ONLY)
5 = 1GBASE-SR (GbE ONLY)
6 = 1GBASE-LR (GbE ONLY)

H = Operating Temperature
0 = Commercial
1 = Industrial

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

RELATED PRODUCTS

ATC121 PCB
Gen 3 Carrier

VT830 6U ATCA
SlotSaver Chassis

ATC806 40G/10G
ATCA Switch

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