AMC633

AMC RAID HBA, with 8 mSATA Disks

Key Features
- Single module, mid-size per AMC.0
- AMC RAID Host Bus Adapter HBA
- Module comes with 8 mSATA Disks
- Single removable tray carries mSATA drives
- AMC.1 with PCIe Gen3 x8 or x4
- Integrated RAID 0, 1, 1E and 10
- Auto-latching of the caddy into the carrier for secure retention, push-button release

Benefits
- Multi-Terabit storage capacity in a single module AMC form factor carrier
- Removable storage for data-sensitive applications
- Electrical, mechanical, software, and system-level expertise in house
- Full system supply from industry leader
- AS9100 and ISO9001 certified company
AMC633

The AMC633 is an integrated RAID with removable mSATA carrier tray which allows all drives to be removed together, supporting applications where large amounts of data need to be physically moved from one equipment to another, or where sensitive (e.g. classified) data must be removed from a system.

The AMC633 caddy uses up to 8 mSATA disks to enable high speed read/write by striping across multiple disks.

The AMC633 is available in both air-cooled (MTCA.0 and MTCA.1) and rugged conduction-cooled (MTCA.2 or MTCA.3) versions.

Figure 1: AMC633
AMC633 – AMC RAID HBA, with 8 mSATA Disks

Figure 2: AMC633 Functional Block Diagram

Figure 3: AMC633 Front Panel
## Specifications

### Architecture

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical</td>
<td>Single Module, mid-size (full-size option available)</td>
</tr>
<tr>
<td></td>
<td>Width: 2.89” (73.5 mm)</td>
</tr>
<tr>
<td></td>
<td>Depth: 7.11” (180.6 mm), carrier protrudes ~1.95” from AMC front panel</td>
</tr>
</tbody>
</table>

### Standards

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMG</td>
<td>AMC.0</td>
</tr>
<tr>
<td>Module Management</td>
<td>IPMI v2.0</td>
</tr>
<tr>
<td>Storage</td>
<td>Up to 8x mSATA drives</td>
</tr>
</tbody>
</table>

### Configuration

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power</td>
<td>AMC633 20W with 8 mSATA disks</td>
</tr>
<tr>
<td>Environmental</td>
<td>Storage Temperature: –40° to +85°C</td>
</tr>
<tr>
<td></td>
<td>See ordering options and <a href="#">environmental spec sheet</a></td>
</tr>
<tr>
<td></td>
<td>Altitude: 40,000 ft non-operating</td>
</tr>
<tr>
<td></td>
<td>Vibration: Operating 9.8 m/s² (1G), 5-500 Hz</td>
</tr>
<tr>
<td></td>
<td>Shock: Operating 325G/2 ms, 160G/1 ms</td>
</tr>
<tr>
<td>Front Panel</td>
<td>Relative Humidity: 5 to 95% non-condensing</td>
</tr>
<tr>
<td></td>
<td>LED: IPMI management control</td>
</tr>
<tr>
<td></td>
<td>Activity</td>
</tr>
<tr>
<td>Mechanical</td>
<td>Removable Tray</td>
</tr>
<tr>
<td>Other</td>
<td>Operating System: Linux, Windows, Solaris and VxWorks</td>
</tr>
</tbody>
</table>

### Other

| MTBF     | MIL Hand book 217-F@ TBD hrs |
| Certifications | Designed to meet FCC, CE and UL certifications, where applicable |
| Compliance | RoHS |
| Standards | VadaTech is certified to both the ISO9001:2000 and AS9100B:2004 standards |
| Warranty  | Two (2) years |

### INTEGRATION SERVICES AND APPLICATION-READY PLATFORMS

VadaTech has a full ecosystem of OpenVPX, ATCA and MTCA products including chassis platforms, shelf managers, AMC modules, Switch and Payload Boards, Rear Transition Modules (RTMs), 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.
Ordering Options

AMC633 – ABC-D00-00J

A = mSATA Disks  
0 = 8 disks  
1 = 4 disks  
2 = Reserved  

D = PCIe  
1 = PCIe x4  
2 = PCIe x8  

B = mSATA Disk Capacity  
0 = 256 GB/disk  
1 = 512 GB/disk  
2 = 1 TB/disk  
3 = Reserved  

C = Front Panel Size  
1 = Reserved  
2 = Mid-size  
3 = Full-size  
4 = Reserved  
5 = Mid-size, MTCA.1 (captive screw)  
6 = Full-size, MTCA.1 (captive screw)  

J = Temperature Range and Coating  
0 = Commercial (−5° to +45°C), No coating  
1 = Commercial (−5° to +45°C), Humiseal 1A33 Polyurethane  
2 = Commercial (−5° to +45°C), Humiseal 1B31 Acrylic  
3 = Reserved  
4 = Industrial (−20° to +70°C), Humiseal 1A33 Polyurethane  
5 = Industrial (−20° to +70°C), Humiseal 1B31 Acrylic  
6 = Reserved  
7 = Reserved

Related Products

AMC626
- Host Bus Adapter (HBA) for external SATA III (6.0 Gbps) or SAS-3 (12 Gbps) drives
- AMC.1 compliant, PCIe Gen3 x8 or x4
- Support for 8 SAS/SATA ports

AMC629
- Single module, mid-size per AMC.0
- Integrated RAID 0, 1, 1E, and 10
- PCIe Gen3 x8 or x4 on ports 4-11, AMC.1 compliant

VT950
- Compliant to MIL-STD-810F, MIL-STD-901D for shock/vibration
- Compliant to MIL-STD-461E for EMI
- Supports up to six single mid-size modules
Choose VadaTech

We are technology leaders
- First-to-market silicon
- Constant innovation
- Open systems expertise

We commit to our customers
- Partnerships power innovation
- Collaborative approach
- Mutual success

We deliver complexity
- Complete signal chain
- System management
- Configurable solutions

We manufacture in-house
- Agile production
- Accelerated deployment
- AS9100 accredited

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