Looking for a versatile, modular, and reliable leading-edge performance at a lower cost? With 100G line cards, the latest array of advanced FPGAs and processors, 40G backplane performance, and standardized shelf management, VadaTech has a solution for you. We offer a complete ecosystem of open standard products with creative innovation for all types of applications. MicroTCA and AdvancedTCA (ATCA) are our platforms of choice, but VadaTech also provides customized solutions as well as specialty products in other architectures.

With its proven reliability and versatility, MicroTCA is quickly becoming the platform of choice in all types of Mil/Aero applications. This includes satellites, vetronics, avionics, RADAR, and other applications that require the highest levels of performance.

**True COTS**
- ■ Vast Ecosystem
- ■ Modular Design (MOSA)
- ■ Lower Cost
- ■ Rugged COTS

**xTCA Mission Computing Ecosystem**

- ■ Leverage maximum use of COTS Advanced Mezzanine Cards (AMCs) to minimize system cost
- ■ Design flexibility and HW/SW re-use
- ■ Rapid design realization through parallel HW/SW development
Ruggedization/Cooling Standard Configurations

A true COTS architecture, VadaTech leverages the same low-cost, high-performance MTCA module designs in the communications market and incorporate them to defined specifications according to your level of ruggedization and requirements. Contact VadaTech for our roadmap of Rugged MicroTCA products and ATRs for MTCA.2 and MTCA.3 specifications, as well as Rugged AdvancedTCA solutions.

<table>
<thead>
<tr>
<th>MicroTCA Ruggedization Specification Level</th>
<th>MTCA.0</th>
<th>MTCA.1</th>
<th>MTCA.2/MTCA.3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Telco-centric spec for AMCs plugging into the backplane without modifications.</td>
<td>Industrial/Semi-rugged spec for exterior and mobilized communications applications.</td>
<td>Hardened MTCA spec for rugged and Mil-centric wedge-lock design with airflow (MTCA.2) and no airflow (MTCA.3) over the modules.</td>
<td></td>
</tr>
<tr>
<td>Max Operating Shock</td>
<td>15g</td>
<td>25g</td>
<td>40g</td>
</tr>
<tr>
<td>Max Operating Vibration</td>
<td>1g sinusoidal</td>
<td>8g random</td>
<td>12g random</td>
</tr>
<tr>
<td>Operating Temperature*</td>
<td>-5C to +55C</td>
<td>Up to -40C to +55C</td>
<td>Up to -40C to +85C</td>
</tr>
</tbody>
</table>

*Specific environmental class categories are defined within each specification.

VadaTech - Industry’s only supplier of full MicroTCA Ecosystem

- Low Profile Chassis
- Vertical Chassis
- Application-ready Platforms
- Shelf Manager
- Power Modules
- ATRs
- Processor AMCs
- FPGA AMCs
- GPGPU AMCs
- Serial I/O AMCs
- Storage AMCs
- Specialty AMCs
- Network Interface AMCs

Rugged ATCA

The VT820 is a 12U rugged AdvancedTCA for deployed defense applications. It was specifically designed for extreme environments and meets MIL-STD-461 for EMI and MIL-STD-810F for shock & vibration.

For more information on Rugged ATCA, contact us at sales@vadatech.com or visit www.vadatech.com