

## SPECIFICATIONS

| Architecture      |                      |  |  |
|-------------------|----------------------|--|--|
| Physical          | Dimensions           | Single module, mid-size (full-size optional)   |  |
|                   |                      | Width: 2.89" (73.5 mm)<br>Depth 7.11" (180.6 mm)   |  |
| Type              | AMC FPGA Carrier     | Xilinx Virtex-7 device   |  |
|                   |                      | 432 Mb QDR-II (36-bit wide each)   |  |
|                   |                      | Single FMC slot  |  |
| Standards         |                      |  |  |
| AMC               | Type                 | AMC.1, AMC.2, and AMC.4 (FPGA programmable)  |  |
| Module Management | IPMI                 | IPMI version 2.0   |  |
| PCIe              | Lanes                | Dual x4/x8 via FPGA to AMC   |  |
| SRIO/Aurora       | Lanes                | Dual x4 via FPGA to AMC  |  |
| Ethernet          | GbE                  | Dual GbE via FPGA  |  |
| Configuration     |                      |  |  |
| Power             | AMC527               | Carrier is ~30 W (without mezzanine) application specific  |  |
| Environmental     | Temperature          | Operating temperature: -5° to 45° C (55°C for limited time, performance restrictions may apply), industrial and military versions also available (See <a href="#">environmental spec sheet</a> ) |  |
|                   |                      | Storage Temperature: -40° to +85°C   |  |
|                   |                      | Vibration  | Operating 9.8 m/s <sup>2</sup> (1.0 G), 5 to 500Hz |
|                   |                      | Shock  | 30Gs on each axis                                  |
| Front Panel       | Relative Humidity    | 5 to 95 per cent, non-condensing   |  |
|                   | Interface Connectors | Front panel FMC, MGT RS-232, CPU RS-232  |  |
|                   | LEDs                 | IPMI management control<br>4 user defined LEDs   |  |
| Software Support  | Mechanical           | Hot swap ejector handle (AMC527); wedgelocks (AMC527C)   |  |
|                   | Operating System     | Linux (consult VadaTech for other options)   |  |
| Conformal Coating |                      | Humiseal 1A33 Polyurethane (Optional)  |  |
|                   |                      | Humiseal 1B31 Acrylic (Optional)   |  |
| Other             |                      |  |  |
| MTBF              |                      | MIL Hand book 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  |  |
| Warranty          |                      | Two (2) years  |  |

### INTEGRATION SERVICES AND APPLICATION-READY PLATFORMS

VadaTech has a full ecosystem of ATCA and  $\mu$ TCA 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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