# Specifications

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| **Architecture** | | |
| **Physical** | **Dimensions** | Single module, 6 HP |
| | | Width: 2.89” (73.5 mm) |
| | | Depth: 7.11” (180.6 mm) |
| **Type** | **AMC FPGA ADC/DAC** | Xilinx UltraScale+™ XCVU13P FPGA |
| | | Single bank of DDR4:64-bit, 8 GB |
| | | Quad ADC/Quad DAC |
| **Standards** | | |
| **AMC** | **Type** | AMC.1, AMC.2 and AMC.4 (FPGA Programmable) |
| **Module Management** | **IPMI** | IPMI v2.0 |
| **PCIe** | **Lanes** | Single x4 or x8 via FPGA to AMC |
| **SRIO/XAUI** | **Lanes** | Single or Dual x4 via FPGA to AMC |
| **SerDes** | **Lanes** | x8 via FPGA to AMC Ports 12-15 and 17-20 |
| **Ethernet** | **GbE and 10 GbE** | Dual GbE and 10/40GbE |
| **Configuration** | | |
| **Power** | **AMC589C** | ~70W application dependent (may go up to 85W) |
| **Environmental** | **Temperature** | See Ordering Options and Environmental Spec Sheet |
| | | Storage Temperature: –40° to +85°C |
| | **Vibration** | Operating 9.8 m/s$^2$ (1G), 5-500 Hz on each axis |
| | **Shock** | Operating 30Gs each axis |
| | **Relative Humidity** | 5 to 95% non-condensing |
| **Front Panel** | **Interface Connectors** | SMPM and SMA |
| | | Micro USBs for MGT RS-232 and FPGA RS-232 |
| | | Front panel I/O for high speed LVDS differential (8 pairs) or singled ended |
| | **LEDs** | IPMI management control |
| | | 8 user defined LEDs |
| **Software Support** | **Operating System** | Agnostic |
| **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, see VadaTech Terms and Conditions | |

**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.