MicroTCA (μTCA)

Environmental Specifications for µTCA Modules

- µTCA Specification has six different Specifications
 - o µTCA.0
 - ο μTCA.1
 - μTCA.2
 - ο μTCA.3
 - μTCA.4
 - \circ μ TCA.4.1 (Follows the μ TCA.4)
- Each of the standard has its own environmental specification
 - This paper at the glace shows each specification





Environmental Specifications for MicroTCA Modules

Environmental Category and Range	μTCA.0 (Air Cooled)	μTCA.1 (Air Cooled)	μTCA.2 (Hybrid Air / Conduction Cooled)	μTCA.3 (Conduction Cooled)	μTCA.4 (Air Cooled with Rear Transition Module)
Retention Mechanism	Hot-swap handle	Retention screws	Open flow wedge locks	Wedge locks	Hot-swap handle
Max Operating Shock	15g	25g	40g	40g	15g
Max Operating Vibration	1g sinusoidal	8g random	12g random	12g random	1g sinusoidal
Operating Temperature	-5°C to +55°C	-5°C to +55°C	-40°C to +85°C*	-40°C to +85°C*	-5°C to +55°C
Operating Temperature (Industrial-grade)	-20°C to +70°C	-20°C to +70°C	N/A	N/A	-20°C to +70°C
Non-operating Temperature	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C
Non-operating Temperature (extreme)**	N/A	N/A	-55°C to +105°C	-55°C to +105°C	N/A

Notes:

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 preconfigured Application-Ready Platforms. Please contact VadaTech Sales for more information.

^{*} Edge of modules for conduction cooled

^{**} Contact VadaTech for more details

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