

MECHANICAL FORMAT	AIR-COOLED <sup>5</sup>			CONDUCTION-COOLED <sup>6</sup>	
Ruggedization Level	Series-100 Commercial	Series-200 Rugged	Series-400 Military	Series-200 Rugged	Series-400 Military
<b>Temperature (°C)</b>					
VITA 47 Class	AC1	AC3	AC4	CC3	CC4
Storage	-40°C to +85°C	-50°C to +100°C	-62°C to +125°C	-50°C to +100°C	-62°C to +125°C
Operating	0°C to +55°C <sup>2</sup>	-40°C to +70°C <sup>2</sup>	-40°C to +85°C <sup>1,2</sup>	-40°C to +70°C <sup>3</sup>	-40°C to +85°C <sup>1,3</sup>
<b>Vibration (all axes)</b>					
VITA 47 Class	V1	V2		V3	
Random	5-100 Hz PSD = 0.04 g <sup>2</sup> /Hz	5-100 Hz; PSD = +3 dB/oct 100-1000 Hz; PSD = 0.04 g <sup>2</sup> /Hz 1000-2000 Hz; PSD = -6 dB/oct		5-100 Hz; PSD = +3 dB/oct 100-1000 Hz; PSD = 0.1 g <sup>2</sup> /Hz 1000-2000 Hz; PSD = -6 dB/oct	
<b>Shock (all axes)</b>					
VITA 47 Class	OS1	OS1		OS2	
Half Sine/Sawtooth	20 g / 11 ms	20 g / 11 ms		40 g / 11 ms	
<b>Altitude (ft)</b>					
Operating Maximum	15,000	35,000	70,000	35,000	70,000
<b>Relative Humidity</b>					
Operating (non-condensing)	0-90%	0-100% <sup>4</sup>	0-100% <sup>4</sup>	0-100% <sup>4</sup>	0-100% <sup>4</sup>
<b>Conformal Coating</b>					
Acrylic	N/A	Yes	Yes	Yes	Yes
Silicone	N/A	Optional	Optional	Optional	Optional
Urethane	N/A	Optional	Optional	Optional	Optional

**1 Extended temperature operation to -55°C is available for select products. Please contact Aitech for additional information.**

2 Operating ambient air temperature (with sufficient airflow).

3 Operating card edge temperature.

4 100% with urethane or optional silicone conformal coating (limited to 95% with acrylic conformal coating).

5 Air-cooled boards per ANSI/VITA 1-1994 (VME), ANSI/VITA 1.1-1997 (VME64x), ANSI/VITA 48/48.1 (VPX), or PICMG 2.0 Rev 3.0 (CompactPCI). Air-cooled PMCs per ANSI/IEEE 1386-2001. Air-cooled XMCs per ANSI/VITA 42.0.

6 Conduction-cooled per ANSI/IEEE 1101.2-1992 (VME), ANSI/VITA 48/48.2 (VPX), or ANSI/VITA 30.1-2002 (CompactPCI). Conduction-cooled PMCs per ANSI/VITA 20-2001. Conduction-cooled XMCs per ANSI/VITA 42.0.