

 <b>ALPHA DATA</b>		Environmental Specification	
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## Environmental Specifications, PMC Products

	Standard <sup>1</sup> AC0	Air-Cooled AC1 <sup>2</sup>	Conduction Cooled CC1 <sup>3</sup>	Conduction Cooled CC2 <sup>4</sup>
<b>Temperature</b>				
Operating	0°C to +55°C	-20°C to +55°C	-40°C to +71°C	-40°C to +85°C
Non-Operating	-40°C to +85°C	-40°C to +85°C	-55°C to +125°C	-55°C to +125°C
<b>Humidity</b>				
Operating	5 to 95% non- condensing	5 to 95% non- condensing	0 to 95% non- condensing	tba
Non-Operating	5 to 95% non- condensing	5 to 95% non- condensing	0 to 95% non- condensing	tba
<b>Vibration</b>				
Sine	2g peak 15 to 2000Hz	2g peak 15 to 2000Hz	10g peak 15 to 2000Hz	10g peak 15 to 2000Hz
Random	0.002g <sup>2</sup> /Hz 100 to 2000Hz	0.002g <sup>2</sup> /Hz 100 to 2000Hz	0.02g <sup>2</sup> /Hz 100 to 2000Hz	0.02g <sup>2</sup> /Hz 100 to 2000Hz
Shock	30g, 11ms ½ sine	30g, 11ms ½ sine	30g, 11ms ½ sine	30g, 11ms ½ sine
<b>Altitude</b>				
Operating	0 to 10,000ft	0 to 30,000ft	0 to 30,000ft	0 to 50,000ft
Storage	0 to 30,000ft	0 to 50,000ft	0 to 50,000ft	0 to 100,000ft
Conformal Coating	No	No	Consult Alpha Data	Yes

### Comments

AC0 is standard build for leaded and RoHS compliant hardware

AC1 is based on a specification for an air-cooled industrial spec (ADM-XRC-II)

CC1 is based on industry norm for this temperature range

CC2 is future specification that will have challenges for FPGAs with T<sub>j</sub>=100°C

<sup>1</sup> Applies to all ADM-XRC-II, XP, -4LX/SX, 5LX and 5T1 products

<sup>2</sup> Applies to ADM-XRC-II only

<sup>3</sup> Applies to ADM-XRC-5LX and -5T1 only

<sup>4</sup> Contact Alpha Data for availability