

Specifications

A

This appendix lists general specifications and power characteristics for the MVME5100 single board computer. It also provides information on cooling requirements.

A complete functional description of the MVME5100 single board computer appears in [Chapter 4, *Functional Description*](#). Specifications for the optional PMC modules can be found in the documentation for those modules.

General Specifications

The following table lists general specifications for MVME5100 single board computer.

Table A-1. MVME5100 Specifications

Characteristic	Specification
Operating Temperature	0° C to 55° C (commercial) and – 20° C to 71° C (industrial) inlet air temperature with forced air cooling. 400 LFM (linear feet per minute) of forced air cooling is recommended for operation in the upper temperature range.
Storage Temperature	– 40° C to +85° C
Relative Humidity	5% to 90% non-condensing
Physical Dimensions	
Height	233.4 mm (9.2 in.)
Depth	160 mm (6.3 in.)
Front Panel Height	261.8 mm (10.3 in.)
Width	19.8 mm (0.8 in.)
Max. Component Height	14.8 mm (0.58 in.)

Power Requirements

Power requirements for the MVME5100 single board computer depend on the configuration of the board. The table below lists the typical and maximum power consumption of the board using an MVME761 transition module.

Table A-2. Power Consumption

Model	+5V ($\pm 5\%$)	+12V ($\pm 10\%$)	-12V ($\pm 10\%$)
MVME5100	3.8 A max. 3.0 A typ.	8.0 mA typ.	2.0 mA typ.
MVME5101	4.7 A max. 3.5 A typ.	8.0 mA typ.	2.0 mA typ.
MVME5106	3.8 A max. 2.6 A typ.	8.0 mA typ.	2.0 mA typ.
MVME5107	4.7 A max. 3.5 A typ.	8.0 mA typ.	2.0 mA typ.
MVME5110-21xx	3.8 A max. 3.1 A typ.	8.0 mA typ.	2.0 mA typ.
MVME5110-22xx	4.7 A max. 3.5 A typ.	8.0 mA typ.	2.0 mA typ.

Note The power requirements for the MVME5100 do not include the power requirements for the PMC or IMPC761 modules. The PMC specification allows for 7.5 watts per PMC slot. The 15 watts total can be drawn from any combination of the three voltage sources provided by the MVME5100: +5V, +12V, and -12V.