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# APPENDIX A

## A. 1 System Specifications

This section provides hardware dimensions, Physical, Electrical and Environmental (Operating and Non-Operating) specifications for the C161.

## A. 2 Physical Specifications

Dimensions of the assembly are provided in Table A.1.

| Description | Specification |
|---|---|
| Form Factor. | 1-slot, 6U, 4HP Card Assembly. |
| Long Axis. | 233.35 mm. |
| Short Axis. | 160 mm. |
| Front Panel Dimensions. | 262.05 mm x 20.32 mm. |
| Edge-to-trace Distance at card guides edges. | 2.54 mm. |

**Table A.1. Physical Specifications**

## A. 3 Electrical Specifications

Electrical Specifications (Typical) for the C161 assembly are provided in Table A.2.

| Processor/Memory Configuration | Voltage | Current | Wattage |
|---|---|---|---|
| PIII Coppermine® 850 MHz<br>128-MB ECC (512-MB) | **+3.3V** | 2.0A | 6.6W |
| | **+5V** | 3.83A | 19.15W |
| | **+12V** | 0.04A | 0.48W |
| | **-12V** | 0.01A | 0.12W |
| | **Total Power: 26.35 Watts** | | |

**Table A.2. Board Electrical Specifications**



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## A. 4 Environmental Specifications

Tables A.3 and A.4 list the Environmental Specifications for the C161 board under operating and non-operating conditions.

When measuring the operating environment air temperature for the C161 board, measure the air temperature as close to the air intake port on the enclosure as possible.

For cooling purposes, air should flow vertically along the long axis of the C161 single board computer on both sides of the printed circuit board.

Environmental Specifications for the C161 assembly are provided in Table A.3 and A.4.

| Description | Minimum Value | Maximum Value |
|---|---|---|
| Temperature Range | 0°C | 50°C |
| Humidity Range (relative non-condensing at 104°F (40°C) | 5% | 90% |
| Altitude Range | 0 feet | 10,000 feet |
| Vibration. | N/A | 0.01G²/Hz 50 - 500-Hz Random Vibrations |
| Shock. | N/A | 6g, 11 ms, ½ sine wave |
| Required Air Flow | 400 Minimum LFM* | |

**Note:** *Must keep this air flow across the CPU Heat Sink to guarantee CPU performance.

**Table A.3. Operating Environmental Specifications**

| Description | Minimum Value | Maximum Value |
|---|---|---|
| Temperature Range | -20°C | 75°C |
| Humidity Range (relative non-condensing at 104°F (40°C) | 5% | 95% |
| Altitude Range | 0 feet | 40,000 feet |
| Vibration. | N/A | 0.01G²/Hz 50 - 500-Hz Random Vibrations |
| Shock. | N/A | 6g, 11 ms, ½ sine wave |

**Table A.4. Non-Operating Environmental Specifications**



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