



Netra™ CP2160 CompactPCI Board Release Notes

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Netra CP2160 CompactPCI Board Release Notes

The *Netra CP2160 Board Release Notes* contains important and late-breaking information about the Netra™ CP2160 CompactPCI host/satellite board.

The most recent versions of Netra CP2160 board documentation are available at:
http://www.sun.com/products-n-solutions/hardware/docs/CPU_Boards

Known Issues

Warning Message Display

When used as a system controller and while used along with the Sun Dual FastEthernet/SCSI 6U CompactPCI Adapter with PMC, the Netra CP2160 board displays the following warning message:

```
WARNING: invalid vector intr: number 0x7c3
```

You can safely disregard this message.

Document Corrections

The following subsections contain corrections that need to be made to the Netra CP2160 documentation.

Note – The references to *Netra CP2000 and CP2100 Series CompactPCI Boards Programming Guide for Solaris Operating Environment* refer to the 816-2485-13 version of the document. Previous versions of the document also contain the text mentioned in this section, but the text may be found on different pages than mentioned here.

Inlet Temperature Sensor Readings

The *Netra CP2000 and CP2100 Series CompactPCI Boards Programming Guide for Solaris Operating Environment* (816-2485-13), page 62, contains the following paragraph:

Note that the inlet temperature sensor typically does not capture true board inlet temperature due to the heat of nearby components. For typical Sun™ systems, subtract 3°C to 6°C from this value to approximate true board inlet temperature. For non-Sun systems, a different value to obtain true board inlet temperature may be required.

Replace this paragraph with the following new paragraph:

Note that the inlet temperature sensor typically does not capture true board inlet temperature due to the heat of nearby components. For typical Netra CP2000/CP2100 series systems, subtract 4°C from the temperature sensor value. Note that the temperature sensor has an accuracy of up to plus or minus 2°C. Users should conduct their own temperature sensor tests to obtain accurate readings.

CPU Diode Terminology Change

The *Netra CP2000 and CP2100 Series CompactPCI Boards Programming Guide for Solaris Operating Environment* (816-2486-13) and the *Netra CP2160 CompactPCI Board Installation and Technical Reference Manual* (816-5772-10) both refer to monitoring the CPU diode temperature on the Netra CP2160 board.

The term *CPU diode* does not accurately reflect the area where the CPU temperature sensor monitors the board temperature. It is more accurate to use the term *CPU sensor* in the document when referring to the location on the board near the CPU where the temperature is being monitored. The term *CPU sensor* should replace *CPU diode* wherever it occurs in the document.

[TABLE 1](#) shows the locations in the technical reference manual and the programming guide where the CPU diode temperature measurements are referenced.

TABLE 1 CPU Diode References in Technical Reference and Programming Guides

Technical Reference (TR) or Programming Guide (PG)	Page Number	Location on Page
TR	A-20	Last section: A.9 Thermal Validation
PG	53	Table 3-3: Typical Netra CP2160 Hardware ASM Functions
PG	60	Last heading title and last paragraph on page
PG	62	Table 3-6: Reported Temperature Readings at an Ambient Room Temperature of 21 °C on a Typical Netra CP2160 Board
PG	63	First paragraph after the table
PG	65	Last subheading title on the page

Changes in OpenBoot PROM Threshold Temperature Defaults for the Netra CP2160 Board

The default OpenBoot PROM threshold temperatures for the Netra CP2160 board have been adjusted for OpenBoot PROM version 1.0.10 and subsequent versions.

The default threshold temperatures for the Netra CP2160 board are listed in the in the *Netra CP2000 and CP2100 Series CompactPCI Boards Programming Guide for Solaris Operating Environment* (816-2485-13) and the *Netra CP2160 CompactPCI Board Installation and Technical Reference Manual* (816-5772-10) as follows:

- warning-temperature = 60° C
- critical-temperature = 65° C
- shutdown-temperature = 70° C

The new default threshold temperatures for Netra CP2160 boards using OpenBoot PROM version 1.0.10 and subsequent versions are as follows:

- warning-temperature = 70° C
- critical temperature = 75° C
- shutdown-temperature = 80° C

TABLE 2 shows the locations in the technical reference manual and the programming guide where the threshold default temperature references need to be changed for the Netra CP2160 board.

TABLE 2 OpenBoot PROM Threshold Temperature Default References in Technical Reference and Programming Guide

Technical Reference (TR) or Programming Guide (PG)	Page Number	Location on Page
TR	4-55	Table 4-3: SRAM Configuration Variables
PG	63	Paragraph after Table 3-6
PG	64	Table 3-7: Default Threshold Temperature Settings
PG	64	Table 3-8: Typical Netra CP2160 Board Temperature Thresholds and Firmware Action
PG	65	Third full paragraph
PG	66	Listed under NVRAM module variable names for each value

The following example values also need to be updated for the Netra CP2160 board in the *Netra CP2000 and CP2100 Series CompactPCI Boards Programming Guide for Solaris Operating Environment* (816-2485-13):

- Page 65, OpenBoot PROM warning temperature example value:
 - Old example: ok **setenv warning-temperature 61**
 - New example: ok **setenv warning-temperature 71**
- Page 65, OpenBoot PROM shutdown temperature example value:
 - Old example: ok **setenv shutdown-temperature 72**
 - New example: ok **setenv shutdown-temperature 82**
- Page 65, OpenBoot PROM critical temperature example value:
 - Old example: ok **setenv critical-temperature 66**
 - New example: ok **setenv critical-temperature 76**

- Page 67, Warning Temperature Response at OpenBoot PROM example:
 - Old example: The current threshold setting is: 60;
The current temperature is: 61
 - New example: The current threshold setting is : 70;
The current temperature is: 71
- Page 67, Critical Temperature Response at OpenBoot PROM example:
 - Old example: The current threshold setting is: 65;
The current temperature is: 66
 - New example: The current threshold setting is : 75;
The current temperature is: 76

Note – The heading for the Shutdown Temperature Response at OpenBoot PROM section in the programming guide is incorrect. This section refers to the critical temperature (as shown in the preceding example), not the shutdown temperature.

DIP Switch Settings

In the *Netra CP2160 CompactPCI Board Installation and Technical Reference Manual* (816-5772-10), Figure 5-24 on page 5-102 shows the DIP switch settings for the power module on the CP2160 board. You can disregard this illustration, as the DIP switch settings may have been set differently on your board in the factory.

Download System Firmware

At the time of the Netra CP2160 board revenue release shipment, the firmware version is 1.0.x. To download the latest firmware version, go to the SunSolve Web site and search for CP2160 in the Search SunSolve window:

<http://www.sun.com/sunsolve>

Download Patches

Regular and point patches related to the Netra CP2160 board are available for download. To download the latest software patches, go to the SunSolve Web site and search for CP2160 in the Search SunSolve window:

<http://www.sun.com/sunsolve>

The point patches for the Netra CP2160 boards that are running the Solaris 8 operating environment are listed in TABLE 3. These patches are not needed if you are using a Netra CP2160 board running the Solaris 9 operating environment.

TABLE 3 Point Patches for Netra CP2160 Board With Solaris 8 operating environment

Patch ID	Description of Patch	Web Site Location of Patch for Download	How to Search for Patch in the Search window	Description of User Who Needs the Patch
116086	FRU ID/PICL plug-ins/prtdiag point patch	http://www.sun.com/sunsolve/point	Type the patch ID in the Point Patch Search window	Netra CP2160 board user who installs <i>Netra CP2100 Supplemental 4.0 CD</i>
116087	FRU ID/PICL plug-ins/prtdiag point patch	http://www.sun.com/sunsolve/point	Type the patch ID in the Point Patch Search window	Netra CP2160 board user who installs <i>Netra CP2100 Supplemental 4.0 CD</i>
113836	Symbolic link point patch	http://www.sun.com/sunsolve/point	Type the patch ID in the Point Patch Search window	Netra CP2160 board user who installs <i>Netra CP2100 Supplemental 4.0 CD</i>
113617	ERI driver point patch	http://www.sun.com/sunsolve/point	Type the patch ID in the Point Patch Search window	Netra CP2160 board user
112877	SunOS 5.8: db21554 driver point patch	http://www.sun.com/sunsolve/point	Type the patch ID in the Point Patch Search window	Netra CP2160 board user