



Netra™ X1 Server Safety and Compliance Guide

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Regulatory Compliance Statements

Your Sun product is marked to indicate its compliance class:

- Federal Communications Commission (FCC) — USA
- Industry Canada Equipment Standard for Digital Equipment (ICES-003) — Canada
- Voluntary Control Council for Interference (VCCI) — Japan
- Bureau of Standards Metrology and Inspection (BSMI) — Taiwan

Please read the appropriate section that corresponds to the marking on your Sun product before attempting to install the product.

FCC Class A Notice

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy, and if it is not installed and used in accordance with the instruction manual, it may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

Shielded Cables: Connections between the server and peripherals must be made using shielded cables to comply with FCC radio frequency emission limits. However, unshielded cables can be used to connect the system to serial devices.

Modifications: Any modifications made to this device that are not approved by Sun Microsystems, Inc. may void the authority granted to the user by the FCC to operate this equipment.

DOC Class A Notice - Avis DOC, Classe A

This Class A digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la classe A respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

BSMI Class A Notice

The following statement is applicable to products shipped to Taiwan and marked as Class A on the product compliance label.

警告使用者：
這是甲類的資訊產品，在居住的環境中使用時，可能會造成射頻干擾，在這種情況下，使用者會被要求採取某些適當的對策。

VCCI 基準について

クラス A VCCI 基準について

クラス A VCCI の表示があるワークステーションおよびオプション製品は、クラス A 情報技術装置です。これらの製品には、下記の項目が該当します。

この装置は、情報処理装置等電波障害自主規制協議会 (VCCI) の基準に基づくクラス A 情報技術装置です。この装置を家庭環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。

Safety Agency Compliance Statements

Read this section before beginning the installation of your Netra X1 server. The following text provides safety precautions to follow during installation.

Safety Precautions

For your protection, observe the following safety precautions when setting up your equipment:

- Follow all cautions and instructions marked on the equipment.
- Ensure that the voltage and frequency of your power source match the voltage and frequency inscribed on the equipment's electrical rating label.
- Never push objects of any kind through openings in the equipment. Dangerous voltages may be present. Conductive foreign objects could produce a short circuit and cause fire, electric shock, or damage to your equipment.

Symbols

The following symbols may appear in this book:



Caution – There is risk of personal injury and equipment damage. Follow the instructions.



Caution – Hot surface. Avoid contact. Surfaces are hot and may cause personal injury if touched.



Caution – Hazardous voltages are present. To reduce the risk of electric shock and danger to personal health, follow the instructions.

On – Applies power to the system.

Depending on the type of power switch your device has, one of the following symbols may be used:



Off – Removes power from the system.



Standby – The On/Standby switch is in the standby position.

Modifications to Equipment

Do not make mechanical or electrical modifications to the equipment. Sun Microsystems is not responsible for regulatory compliance of a modified Sun product.

Placement of a Sun Product



Caution – If the system is installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may exceed the room ambient. Ensure that rack environment ambient temperature does not exceed 55 degrees Celsius (130 degrees Fahrenheit).



Caution – Mounting of the equipment in a rack or cabinet should be such that a hazardous condition is not created due to uneven mechanical loading or weight distribution.



Caution – The workplace-dependent noise level defined in DIN 45 635 Part 1000 must be 70dB(A) or less.

SELV Compliance

Safety status of I/O connections comply to SELV requirements.

Power Cord Connection



Caution – Sun products are designed to work with single-phase power systems having a grounded neutral conductor. To reduce the risk of electric shock, do not plug Sun products into any other type of power system. Contact your facilities manager or a qualified electrician if you are not sure what type of power is supplied to your building.



Caution – Not all power cords have the same current ratings. Household extension cords do not have overload protection and are not meant for use with computer systems. Do not use household extension cords with your Sun product.



Caution – In order to remove all power from this unit, disconnect the power cord.



Caution – Netra X1 units are designed to work with DC power. Units designed to work with DC power are shipped with a connector to be used with a customer supplied 48V power cord for the customer to connect to the DC power source. Always connect DC powered units to a DC power source only.



Caution – Ensure that the connection of multiple system units to the circuit does not overload the supply overcurrent protection or supply wiring. Consider the Sun product nameplate electrical ratings when determining the correct branch circuit rating for your installation.



Caution – The power switch of this product functions as a standby type device only. The plug on the power cord serves as the primary disconnect device for the system. Be sure to plug the power cord into a grounded power outlet that is near to the system and is readily accessible. Do not connect the power cord when the power supply has been removed from the system chassis.



Caution – All supply connections, wiring, wire protection, and wire routing must be made in accordance with applicable sections and requirements of national electrical code and local electrical authorities.



Caution – The Netra X1 server system ground is not isolated from the chassis.

System Unit Cover



Caution – Do not operate Sun products without the top cover in place. Failure to take this precaution may result in personal injury and system damage.

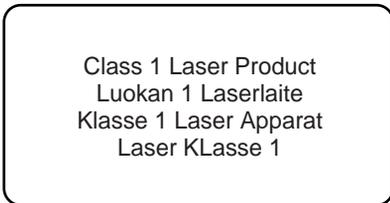
Lithium Battery



Caution – There is a danger of explosion if the NVRAM chip is incorrectly replaced. Replace it only with a component of the same type as the used one (part number: F100-6889). To replace the chip, follow any instructions supplied with the new component. Dispose of the used component according to the manufacturer’s instructions.

Laser Compliance Notice

Sun products that use laser technology comply with Class 1 laser requirements.



DC Source Site Requirements

The Netra X1 server is suitable for use in –48 VDC (classified SELV) nominal or –60 VDC nominal systems.

The DC source must be:

- Electrically isolated by double or reinforced insulation from any hazardous AC or DC source
- Reliably connected to earth
- Capable of providing up to 200 W of continuous power per feed pair.



Caution – The Netra X1 server must be installed in a *restricted access location*. Per the intent of the National Electrical Code, this is an area intended for qualified or trained personnel only, access to which is controlled by a locking mechanism (for example, a key lock or an access card system).

- The DC supply source must be electrically isolated from any AC source or other voltages by double or reinforced insulation.
- Circuit breakers meeting the requirements shown in the table below must be fitted between the DC source and the server, and they must be ON when in the UP position.

Overcurrent Protection Requirements

Description	Requirement
Current rating	7.5A maximum
Voltage	Maximum 60 VDC rated in –48 VDC power systems Maximum 75 VDC rated in –60 VDC power systems
Type	Fast trip
Protection	EITHER: Double pole breaking (both grounded and ungrounded conductor to open on fault) OR: Single pole breaking ungrounded conductor (–48V) to open on fault.
Contact gap	Minimum 3 mm
Nuisance tripping	Circuit breaker must not operate when presented with an in-rush current of 27 amps and a duration of 2.5 microseconds
Quantity	One per feed, up to 2 per system

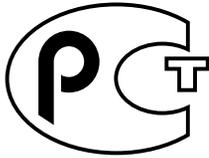


Caution – Overcurrent devices must meet applicable national and local electrical safety codes and be approved for the intended application.

Overcurrent Protection Requirements

- Overcurrent protection devices must be provided as part of each host equipment rack.

GOST-R Certification Mark



Nordic Lithium Battery Cautions

Norge



ADVARSEL – Litiumbatteri —
Ekspløsjonsfare. Ved utskifting benyttes kun
batteri som anbefalt av apparatfabrikanten.
Brukt batteri returneres apparatleverandøren.

Sverige



VARNING – Explosionsfara vid felaktigt
batteribyte. Använd samma batterityp eller
en ekvivalent typ som rekommenderas av
apparatillverkaren. Kassera använt batteri
enligt fabrikantens instruktion.

Danmark



ADVARSEL! – Litiumbatteri —
Ekspløsjonsfare ved fejlagtig håndtering.
Udskiftning må kun ske med batteri af samme
fabrikat og type. Levér det brugte batteri
tilbage til leverandøren.

Suomi



VAROITUS – Paristo voi räjähtää, jos se on
virheellisesti asennettu. Vaihda paristo
ainoastaan laitevalmistajan suosittelemaan
tyyppiin. Hävitä käytetty paristo valmistajan
ohjeiden mukaisesti.
