

# Compliance and Safety Information

For the purpose of regulatory compliance certifications and identification, this product has been assigned a unique regulatory model number. The regulatory model number can be found on the product nameplate label, along with all required approval markings and information. When requesting compliance information for this product, always refer to this regulatory model number. The regulatory model number is not the marketing name or model number of the product.

This document contains safety precautions, environmental notices, and regulatory compliance notices for products.

## Safety information

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▶ **Safety precautions**

Retain and follow all product safety and operating instructions. Always refer to the documentation (printed or electronic) supplied with your product. If there is a conflict between this document and the product documentation, the product documentation takes precedence. Observe all warnings on the product and in the operating instructions to reduce the risk of bodily injury, electric shock, fire, and damage to the equipment.

▶ **Safety guidelines**

Always observe the following precautions to reduce the risk of injury and property damage.

Do not attempt to service a product yourself unless instructed to do so by the customer support center or your documentation.

This equipment is not suitable for use in locations where children are likely to be present.



## Precautions for maintaining and servicing products

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To reduce the risk of electric shock or damage to the equipment when installing, maintaining, or servicing products, observe the following precautions:

- Some products contain power supplies that are capable of producing hazardous energy levels. Refer to the documentation included with your product to determine whether it contains these power supplies. The installation of internal options and routine maintenance and service of this product should be performed by individuals who are knowledgeable about the procedures, precautions, and hazards associated with equipment containing hazardous energy levels.
  - Allow the product to cool before removing covers and touching internal components.
  - Do not use conductive tools that could bridge live parts.
  - Remove all watches, rings, or loose jewelry when working in hot-plug areas of an energized server, storage, networking, or rack product.
  - Do not attempt to defeat safety interlocks (where provided).
  - Some products have covers or doors to access hot-plug components and may allow access to hazardous energy circuits or moving fans.
    - The doors should remain locked during normal operation.OR
    - The server, storage, networking, or rack product should be installed in a controlled access location where only qualified personnel have access.
  - Power down the equipment and disconnect all power cords before removing any access covers for non hot-plug areas.
  - Do not replace non-hot-plug components while power is applied to the product. First, shut down the product and disconnect all power cords.
  - Do not exceed the level of repair specified in the procedures in the product documentation. All troubleshooting and repair procedures are detailed to allow only subassembly or module-level repair. Because of the complexity of the individual boards and subassemblies, do not attempt to make repairs at the component level or to make modifications to any printed wiring board. Improper repairs can create a safety hazard.
  - For floor-standing products, install and extend bottom stabilizers before installing options and boards.
  - Verify that the AC power supply branch circuit that provides power to the rack is not overloaded. This will reduce the risk of personal injury, fire, or damage to the equipment. The total rack load should not exceed 80 percent of the branch circuit rating. Consult the electrical authority having jurisdiction over your facility wiring and installation requirements.
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▶ **Power cords and power adapters**

Use only the power cords and power adapters supplied by the product manufacturer.

The power cord and power adapter are intended for use with this product only. They should never be used with any other product.

The power cords shall be safety approved. For United States, it shall be UL \ CSA logo. For other countries, the suitable types shall be used accordingly.

Never wrap a power cord around a power adapter or other object. Doing so can stress the cord in ways that can cause the cord to fray, crack, or crimp. This can present a safety hazard.

Always route power cords or any other cables so that they will not be walked on, tripped over, or pinched by objects.

Protect power cords and power adapters from liquids. For instance, do not leave your power cord or power adapter near sinks, tubs, toilets, or on floors that are cleaned with liquid cleansers. Liquids can cause a short circuit, particularly if the power cord or power adapter has been stressed by misuse. Liquids also can cause gradual corrosion of power cord terminals and/or the connector terminals on a power adapter, which can eventually result in overheating.

Always connect power cords and signal cables in the correct order and ensure that all power cord connectors are securely and completely plugged into receptacles.


Do not use any power adapter that shows corrosion at the ac input pins or shows signs of overheating (such as deformed plastic) at the ac input or anywhere on the power adapter.

Do not use any power cords where the electrical contacts on either end show signs of corrosion or overheating or where the power cord appears to have been damaged in any way.

▶ **Extension cords and related devices**

Ensure that extension cords, surge protectors, uninterruptible power supplies, and power strips that you use are rated to handle the electrical requirements of the product. Never overload these devices. If power strips are used, the load should not exceed the power strip input rating. Consult an electrician for more information if you have questions about power loads, power requirements, and input ratings.

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▶ **Plugs and outlets**

If a receptacle (power outlet) that you intend to use with your product equipment appears to be damaged or corroded, do not use the outlet until it is replaced by a qualified electrician.

Do not bend or modify the plug. If the plug is damaged, contact the manufacturer to obtain a replacement.

Do not share an electrical outlet with other home or commercial appliances that draw large amounts of electricity other wise, unstable voltage might damage your product, data, or attached devices.

Some products are equipped with a three-pronged plug. This plug fits only into a grounded electrical outlet. This is a safety feature. Do not defeat this safety feature by trying to insert it into a non-grounded outlet. If you cannot insert the plug into the outlet, contact an electrician for an approved outlet adapter or to replace the outlet with one that enables this safety feature.

Never overload an electrical outlet. The overall system load should not exceed 80 percent of the branch circuit rating. Consult an electrician for more information if you have questions about power loads and branch circuit ratings.

Be sure that the power outlet you are using is properly wired, easily accessible, and located close to the equipment. Do not fully extend power cords in a way that will stress the cords.

Be sure that the power outlet provides the correct voltage and current for the product you are installing.

Carefully connect and disconnect the equipment from the electrical outlet.

▶ **Power supply statement**

Never remove the cover on a power supply or any part that has the following label attached.

Hazardous voltage, current, and energy levels are present inside any component that has this label attached. There are no serviceable parts inside these components. If you suspect a problem with one of these parts, contact a service technician.



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▶ **Batteries**

Some products may contain internal replaceable battery cells or battery packs. There is risk of fire, burns, or explosion if the battery pack is not handled properly.

To reduce the risk of personal injury:

- Do not attempt to recharge the battery.
- Do not disassemble, crush, puncture, short external contacts, or dispose of the battery in fire or water.
- Replace only with the spare battery designated for this product. Dispose of used batteries according to the manufacturer's instructions and local disposal requirements.
- For battery holders (for example, coin cells), observe the correct polarity when changing the battery/cell.

There is a danger of explosion if the battery is installed incorrectly.

▶ **Lithium coin cell battery notice**

Danger of explosion if battery is incorrectly replaced.

When replacing the lithium coin cell battery, use only the same or an equivalent type that is recommended by the manufacturer. The battery contains lithium and can explode if not properly used, handled, or disposed of.

Do not:

- Throw or immerse into water
- Heat to more than 100°C (212°F)
- Repair or disassemble

Dispose of the battery as required by local ordinances or regulations.

The following statement applies to users in the state of California, U.S.A. California Perchlorate Information:

Products containing manganese dioxide lithium coin cell batteries may contain perchlorate. Perchlorate Material — special handling may apply.

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▶ **External devices**

Do not connect or disconnect any external device cables other than USB and Thunderbolt cables while the product power is on; otherwise, you might damage your product.

To avoid possible damage to attached devices, wait at least five seconds after the product is shut down to disconnect external devices.

▶ **Heat and product ventilation**

Do not operate your product near flammable materials or in explosive environments.

Ventilation slots, fans and/or heat sinks are provided with the product for safety, comfort, and reliable operation. These features might inadvertently become blocked by placing the product on a bed, sofa, carpet, or other flexible surface. Never block, cover, or disable these features.

For your safety, always follow these basic precautions with your product :

Keep the cover closed whenever the products is plugged in.

- Regularly inspect the outside of the products for dust accumulation.
- Remove dust from vents and any perforations in the bezel. More frequent cleanings might be required for products in dusty or high-traffic areas.
- Do not restrict or block any ventilation openings.
- Hazardous moving parts, Keep away from moving fan blades.
- Do not operate your product inside furniture, as this might increase the risk of overheating.
- Airflow temperatures into the product should not exceed 35°C (95°F).



▶ **Laser compliance statement**

Some product models are equipped from the factory with a CD or DVD drive. CD and DVD drives are also sold separately as options. CD and DVD drives are laser products. The drive's classification label (shown below) is on the surface of the drive.

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These drives are certified in the U.S. to conform to the requirements of the Department of Health and Human Services 21 Code of Federal Regulations (DHHS 21 CFR) Subchapter J for Class I laser products. Elsewhere, these drives are certified to conform to the requirements of the International Electro technical Commission (IEC) 60825-1 and CENELEC EN 60825-1 for Class I laser products.

Class I laser products are not considered hazardous. The design of the laser system and the optical storage drive ensures that there is no exposure to laser radiation above a Class I level during normal operation, user maintenance, or servicing.

**When a CD or DVD drive is installed, note the following handling instructions.**

Use of controls, adjustments, or performance of procedures other than those specified herein might result in hazardous radiation exposure.

Do not remove the drive covers. Removing the covers of the CD or DVD drive could result in exposure to hazardous laser radiation. There are no serviceable parts inside the CD or DVD drive.

**Some CD and DVD drives contain an embedded Class 3A or Class 3B laser diode. Note the following statement.**

Do not stare into the beam, do not view directly with optical instruments, and avoid direct exposure to the beam.





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▶ **Electrical current safety information**

Electric current from power, telephone, and communication cables is hazardous. To avoid a shock hazard:

- Do not use your product during a lightning storm.
- Do not connect or disconnect any cables or perform installation, maintenance, or reconfiguration of this product during an electrical storm.
- Connect all power cords to a properly wired and grounded electrical outlet.
- Connect to properly wired outlets any equipment that will be attached to this product.
- Whenever possible, use one hand only to connect or disconnect signal cables.
- Never turn on any equipment when there is evidence of fire, water, or structural damage.
- Disconnect the attached power cords, battery pack, and all the cables before you open the device covers, unless instructed otherwise in the installation and configuration procedures.
- Do not use your product until you have closed the cover. Never use the product when the cover is open.
- Connect and disconnect cables as described in the following procedures when installing, moving, or opening covers on this product or attached devices.

To connect:

- 1) Turn everything OFF.
- 2) First, attach all cables to devices.
- 3) Attach signal cables to connectors.
- 4) Attach power cords to outlets.
- 5) Turn devices ON.



These symbols on power supplies or systems indicate that the equipment is supplied by multiple sources of power.

To disconnect:

- 1) Turn everything OFF.
- 2) First, remove power cords from outlets.
- 3) Remove signal cables from connectors.
- 4) Remove all cables from devices.

To reduce the risk of injury from electric shock, remove all power cords to completely disconnect power from the system.

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The power cord must be disconnected from the wall outlet or receptacle before installing all other electrical cables connected to the product.

The power cord may be reconnected to the wall outlet or receptacle only after all other electrical cables have been connected to the product.

▶ **Using headphones or earphones**

If your product has both a headphone connector and an audio-out connector, always use the headphone connector for headphones (also called a headset) or earphones.

Excessive sound pressure from earphones and headphones can cause hearing loss.

Adjustment of the equalizer to maximum increases the earphones and headphones output voltage and therefore the sound pressure level.

Excessive use of headphones or earphones for a long period of time at high volume can be dangerous if the output of the headphones or earphone connectors do not comply with specifications of EN 50332-2. The headphone output connector of your product complies with EN 50332-2 Sub clause 7.

This specification limits the product's maximum wide band true RMS output voltage to 150 mV. To help protect against hearing loss, ensure that the headphones or earphones you use also comply with EN 50332-2 (Clause 7 limits) for a wide band characteristic voltage of 75 mV. Using headphones that do not comply with EN 50332-2 can be dangerous due to excessive sound pressure levels.

If your product came with headphones or earphones in the package, as a set, combination of the headphones or earphones and the product already complies with the specifications of EN 50332-1. If different headphones or earphones are used, ensure that they comply with EN 50332-1 (Clause 6.5 Limitation Values). Using headphones that do not comply with EN 50332-1 can be dangerous due to excessive sound pressure levels.

▶ **Additional safety information**

Plastic bags can be dangerous. Keep plastic bags away from babies and children to avoid danger of suffocation.

(Notice for users in the U.S.A.)

Handling the cord on this product or cords associated with accessories sold with this product will expose you to lead, a chemical known to the State of California to cause cancer, and birth defects or other reproductive harm. Wash hands after handling.

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## Precautions for products installed in racks and cabinets

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### ▶ **Materials handling**

To reduce the risk of personal injury or damage to the equipment:

- Observe local occupational health and safety requirements and guidelines for handling materials.
- Obtain assistance to lift and stabilize the product during installation or removal.
- Remove all pluggable power supplies and modules to reduce the weight of the product.
- Be careful when pressing the rail release latches and sliding the product into the rack. The slide rails could pinch your fingertips.

### ▶ **Rack stability**

To reduce the risk of personal injury or damage to the equipment, the rack must be secured adequately to prevent it from becoming unstable and/or falling over.

- Extend the leveling jacks to the floor.
- Ensure that the full weight of the rack rests on the leveling jacks.
- Install stabilizing feet on the rack.
- In a multiple-rack installation, fasten the racks together securely.
- Extend only one rack component at a time. Racks can become unstable if more than one component is extended.
- Load the rack from the bottom up, starting with the heaviest component.
- Ensure that the component is properly mated with the rails, or the rails may be unstable.
- Do not attempt to move a fully loaded rack. Remove components from the rack before moving it.
- Do not attempt to move a rack on an incline that is greater than 10 degrees from horizontal.



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▶ **Cabinet safety**

**WARNING:**

- Cabinets are heavy even when empty. Exercise caution when moving cabinets whether equipment is installed in the cabinet or not. Avoid rolling cabinets on rough or uneven surfaces or inclines greater than 10 degrees. Unloading cabinets from the pallet and movement of cabinets should be performed by at least two people.
- Sliceable products are not to be extended from the cabinet while the equipment is on the shipping pallet. The cabinet must be unloaded from the pallet and all anti-tip devices properly installed prior to extending any sliceable product.
- Once installed, all anti-tip devices must remain in place to maintain stability. Only one sliceable product must be extended at a time.
- Failure to follow these precautions can result in damage to equipment or injury to personnel.

