

Product Safety and Regulatory Compliance

Hardware Guide for Commercial Product Devices

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Commercial Product Device Safety Information

This document applies to Kratos Commercial Product Devices (pedestal, table-top, and rack-mount) and installed peripherals.

In the event of a conflict between the information in this document and information provided with the product or on the website for a particular product, the product documentation takes precedence.

Users must adhere to the guidelines in this document and the assembly instructions in product manuals to ensure and maintain compliance with existing product certifications and approvals. Use only the described, regulated components specified. Use of other products and/or components will void the NRTL Listing and other regulatory approvals of the product, and might result in noncompliance with product regulations in the region(s) in which the product is sold.

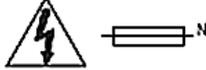
Safety Warnings and Cautions

The Commercial Product Device should be integrated and serviced only by technically qualified or skilled persons.

CAUTION: To avoid personal injury or property damage, users should read, observe, and adhere to all the following safety instructions and information before beginning installing the product .

The following safety symbols may be used throughout the documentation and can be marked on the product and/or the product packaging.

Warning / Icon	Description
CAUTION	Indicates the presence of a hazard that might cause minor personal injury or property damage if the CAUTION is ignored.
WARNING	Indicates the presence of a hazard that might result in serious personal injury if the WARNING is ignored.
	Indicates potential hazard if indicated information is ignored.
	Indicates potential for serious injury if indicated information is ignored.
	Indicates shock hazards that result in serious injury or death if safety instructions are not followed.
	Indicates hot components or surfaces.
	Indicates do not touch fan blades, might result in injury.

Warning / Icon	Description
	<p>Indicates Stand-By Power.</p>
	<p>Indicates disconnect all power sources before servicing.</p> <p>Simplified Chinese: 注意： 本设备包括多条电源系统电缆。为避免遭受电击，在进行维修之前应断开两（2）条电源系统电缆。</p> <p>Traditional Chinese: 注意： 本設備包括多條電源系統電纜。為避免遭受電擊，在進行維修之前應斷開兩（2）條電源系統電纜。</p> <p>German: Dieses Geräte hat mehr als ein Stromkabel. Um eine Gefahr des elektrischen Schlages zu verringern trennen sie beide (2) Stromkabeln bevor Instandhaltung.</p>
	<p>Indicates hazard if rack-mounted component is used improperly, as shelf or workspace.</p>
	<p>CAUTION: DOUBLE POLE/NEUTRAL FUSING</p> <p>Indicates a fuse is used in the neutral of single-phase equipment either permanently connected or provided with a non-reversible plug. After operation of the fuse, parts of the equipment that remain energized might represent a hazard during servicing.</p>
<p>Nordic Countries</p>	
<p>Connection to Proper Ground Outlet</p>	<p>Apparatets stikprop skal tilsluttes en stikkontakt med jord, som giver forbindelse til stikproppens jord. Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan. Apparatet må tilkoples jordet stikkontakt. Apparaten skall anslutas till jordat uttag.</p> <p>Connect only to a properly earth grounded outlet.</p> <p>Equipment not intended for use at altitudes exceeding 2000m and shall be considered when marketed to China. Marking shall be provided when marketed to China. The equipment is intended for use in a tropical environment.</p>
	<p>If applicable: For equipment intended to be used at altitude not exceeding 2000m, a warning label containing the following or a similar appropriate wording or warning/icon shall be fixed to the equipment at a readily visible place.</p> <p>“Only used at altitude not exceeding 2000m”</p> <p>Simplified Chinese: 简明中文： 仅在海拔不超过2000m时使用</p>

Warning / Icon	Description
	<p>If applicable: For equipment intended to be used in non-tropical climate regions, a warning label containing the following or a similar appropriate wording or warning/icon shall be fixed to the equipment at a readily visible place.</p> <p>"Only used in non-tropical climate regions."</p> <p>Simplified Chinese:</p> <p>简明中文: 仅用于非热带气候区</p>

Site Selection

The Commercial Product Device is designed to operate in an indoor office environment. Choose a site that is:

- Clean, dry, and free of airborne particles (other than normal room dust).
- Well-ventilated and away from sources of heat including direct sunlight and radiators.
- Away from sources of vibration or physical shock.
- Isolated from strong electromagnetic fields produced by electrical devices.
- Provided with a properly grounded wall outlet. In regions that are susceptible to electrical storms, users might employ a surge suppressor.
- Provided with sufficient space to access the power supply cord(s) of the system, as these cords may serve as the product's main power disconnect.

Power and Electrical Warnings

  **CAUTION** The power button, sometimes indicated by the standby power () marking, DOES NOT completely turn off the system input AC power; standby power is active whenever the system is plugged in.

To remove power from system, users must unplug the input AC power cord from the wall outlet. The system might use more than one AC power cord. Ensure that all input AC power cords are unplugged before opening the chassis or adding or removing any non-hot-plug components.

A separate main input power AC cord is required for each system power supply. Do not attempt to modify or use an alternate main AC power cord if it is not the exact type required.

The power supply in this product contains no user-serviceable parts. Do not open the power supply. Hazardous voltage, current, and energy levels are present inside the power supply. Return to manufacturer for servicing.

When replacing a hot-plug power supply, unplug the power cord to the power supply being replaced before removing it from the Commercial Product Device.



To avoid risk of electric shock, turn off the Commercial Product Device and disconnect all power cord(s), telecommunications systems, networks, and modems attached to the Commercial Product Device before opening.

Power Cord Warnings and Usage Guidelines

Power Cord Warnings

If a proper input AC power cord for the user's country was not provided with the product, purchase one that is approved for use in the user's country.



To avoid electrical shock or fire, check the power cord(s) that are used with the product as follows:

- The power cord(s) must meet the following criteria:
 - Each power cord must have an electrical rating that is greater than that of the electrical current rating marked on the product.
 - Each power cord must have safety ground pin or contact that is suitable for the electrical outlet.
- The power supply cords may be the main disconnect device to input AC power. The socket outlets must be near the equipment and readily accessible for disconnection.
- Each power supply cord must be plugged into a socket-outlet that is provided with a suitable earth ground.

Power Cord Usage Guidelines



Do not attempt to modify or use an AC power cord set that is not the exact type required. Users must use a flexible power cord set that meets the following criteria:

- **Rating:** In the U.S. and Canada, cords must be UL (Underwriters Laboratories, Inc.) Listed/CSA (Canadian Standards Organization) Certified type SJT, 18-3 AWG (American Wire Gauge). Outside of the U.S. and Canada, cords must be flexible harmonized (<HAR>) or VDE (Verband Deutscher Elektrotechniker, German Institute of Electrical Engineers) certified cord with 3 x 0.75 mm conductors rated 250 VAC (Volts Alternating Current).
- **Connector, wall outlet end:** Cords must be terminated in a grounding-type male plug designed for use in the user's region. The connector must have certification marks showing certification by an agency acceptable in the user's region; in the U.S., cords must be listed and rated 125% of overall current rating of the device.
- **Connector, device end:** The connectors that plug into the AC receptacle on the device must be an approved IEC (International Electrotechnical Commission) 320, sheet C13 type female connector.
- **Cord length:** Cords must be less than 4.5 meters (14.76 feet) long.

Device Access Warnings



To avoid personal injury or property damage, the following safety instructions apply whenever accessing the inside of the product:

- Turn off all peripheral devices connected to the product.
- Turn off the system by pressing or de-pressing the power button.
- Disconnect the AC power by unplugging all AC power cords from the system or wall outlet.
- Disconnect all cables and telecommunication lines that are connected to the system.
- Retain all screws or other fasteners when removing access cover(s). Upon completion of accessing the inside of the product, refasten the access cover(s) with original screws or fasteners.
- Power down the Commercial Product Device and disconnect all power cords before adding or replacing.
- When replacing a hot-plug power supply, unplug the power cord to the power supply being replaced before removing the power supply from the Commercial Product Device.
- Do not access the inside of the power supply. There are no serviceable parts in the power supply. Return to manufacturer for servicing.



If the Commercial Product Device has been running, any installed processor(s) and heat sink(s) might be hot. Unless adding or removing a hot-plug component, allow the system to cool before opening the covers. To avoid the possibility of coming into contact with hot components during a hot-plug installation, be careful when removing or installing the hot-plug component.



To avoid injury, do not touch moving fan blades. If user's system is supplied with a guard over the fan, do not operate the system without the fan guard in place.

Rack Mount Warnings and Installation Guidelines

Rack Mount Warnings



To avoid personal injury or property damage, the following safety instructions apply whenever using rack mounted equipment.

- The equipment rack must be anchored to an unmovable support to prevent it from tipping when a Commercial Product Device or piece of equipment is extended from it. The equipment rack must be installed according to the rack manufacturer's instructions.
- Install equipment in the rack from the bottom up, with the heaviest equipment at the bottom of the rack.
- Extend only one piece of equipment from the rack at a time.

- Users are responsible for installing a main power disconnects for the entire rack unit. This main disconnect must be readily accessible and must be labeled as controlling power to the entire unit, not just to the Commercial Product Device.
- To avoid risk of potential electric shock, a proper safety ground must be implemented for the rack and each piece of equipment installed in it.

Rack Mount Installation Guidelines

The following installation guidelines apply when mounting equipment to a rack.

- **Anchor the equipment rack:** The equipment rack must be anchored to an unmovable support to prevent it from falling over when one or more servers are extended in front of the rack on slides. Users must also consider the weight of any other device installed in the rack. A potential crushing hazard exists in the event the rack tilts or falls forward unexpectedly. This event can result in a serious injury.
- **Temperature:** The temperature in which the Commercial Product Device operates when installed in an equipment rack must not go below or exceed the temperatures defined in the device user manual. Extreme fluctuations in temperature can cause various problems with the device.
- **Ventilation:** The equipment rack must provide sufficient airflow to the front of the Commercial Product Device to maintain proper cooling. The rack must also include ventilation sufficient to exhaust a maximum of 1023 BTUs (British Thermal Units) per hour for the Commercial Product Device. The rack selected and the ventilation provided must be suitable to the environment in which the device is used.

If AC Power Supplies Are Installed

- **Main AC power disconnection:** The AC power cord(s) is considered the main disconnect for the Commercial Product Device and must be readily accessible for disconnect when installed. If the individual Commercial Product Device power cord(s) will not be readily accessible for disconnection, then users are responsible for installing an AC power disconnect for the entire rack unit. This main disconnect must be readily accessible, and it must be labeled as controlling power to the entire rack, not just to the Commercial Product Device(s).
- **Grounding the rack installation:** To avoid the potential for an electrical shock hazard, users must include a third wire safety ground conductor (suitable by local electrical code requirements) with the rack installation. If the Commercial Product Device power cord is plugged into an AC outlet that is part of the rack, users must provide proper grounding for the rack itself. If the Commercial Product Device power cord is plugged into a wall AC outlet, the safety ground conductor in the power cord provides proper grounding only for the device. The user must provide additional proper grounding for the rack and other devices installed in the rack.
- **Over-current protection:** The Commercial Product Device is designed for an AC line voltage source with up to 20 amperes of over-current protection per cord feed. If the power system for the equipment rack is installed on a branch circuit with more than 20 amperes

of protection, the user must provide supplemental protection for the Commercial Product Device.

If DC Power Supplies Are Installed

Connection with a DC (Direct Current) source should only be performed by trained service personnel. The Commercial Product Device with DC input is to be installed in a Restricted Access Location in accordance with articles 110-16, 110-17, and 110-18 of the National Electric Code, ANSI/NFPA 70. The DC source must be electrically isolated by double or reinforced insulation from any hazardous AC source.

- **Main DC power disconnect:** The user is responsible for installing a properly rated DC power disconnect for the Commercial Product Device. This main disconnect must be readily accessible, and it must be labeled as controlling power to the device. The circuit breaker of a centralized DC power system can be used as a disconnect device when easily accessible and should be rated appropriately to handle the system demands.
- **Grounding the Commercial Product Device:** To avoid the potential for an electrical shock hazard, the user must reliably connect an earth-grounding conductor to the Commercial Product Device. The earth-grounding conductor must be a minimum 18 AWG connected to the earth ground stud(s) on the rear of the Commercial Product Device. The safety ground conductor should be connected to the chassis stud with a Listed closed two-hole crimp terminal. The nuts on the chassis earth ground studs should be installed with 10 in/lbs torque. The safety ground conductor provides proper grounding only for the Commercial Product Device. Users must provide additional proper grounding for the rack and other devices installed in the rack.
- **Over-current protection:** Over-current protection circuit breakers must be provided as part of each host equipment rack and must be incorporated in the field wiring between the DC source and the Commercial Product Device. The branch circuit protection shall be rated minimum 75Vdc and amperage suitable for the systems maximum amperage requirements per feed pair. If the DC power system for the equipment rack is installed with more than 10 amperes of protection, the user must provide supplemental protection for the Commercial Product Device.

Other Hazards

Electrostatic Discharge (ESD)



ElectroStatic Discharge (ESD) is the transfer of an electrostatic charge between objects. ESD damage can occur as the result of a discharge to the device, from the device, or from charge transfers resulting from electrostatic fields. Devices vary significantly in their sensitivity or susceptibility to ESD. Effective ESD control programs require a variety of procedures and materials. Kratos recommends that users follow guidelines and precautions as directed by location, and observe all warning signs and symbols.

Battery Replacement

**CAUTION**

There is a risk of explosion if the battery is incorrectly replaced. When replacing the battery, use only the battery recommended by the equipment manufacturer.

- Dispose of batteries according to local ordinances and regulations.
- Do not attempt to recharge a battery.
- Do not attempt to disassemble, puncture, or otherwise damage a battery.

Lithium Battery Precautions

**CAUTION**

- Do not change the battery; the battery must be replaced by authorized service/skilled personnel only.
- There is a risk of explosion if battery is incorrectly replaced. Replacement battery must be same or equivalent type recommended by the manufacturer. Short-circuiting the battery might heat the battery and cause severe injuries.
- There is a risk of explosion if battery is replaced by an incorrect battery type.
- Dispose of used batteries according to the instructions provided with the replacement battery and in accordance with local requirements.

Cooling and Airflow

**CAUTION**

Carefully route cables as directed to minimize airflow blockage and cooling problems.

For proper cooling and airflow, operate the system only with the chassis covers installed. Operating the system without the covers in place can damage system parts. To install the covers:

1. Check first to make sure that loose tools or parts were not left inside the system.
2. Check that cables, add-in boards, and other components are properly installed.
3. Attach the covers to the chassis according to the product instructions.

Operating and Storage Temperature

**CAUTION**

The allowed operating temperature of a Commercial Product Device is generally +5...+40°C. The allowed storage temperature is generally -20...+70°C; however, these limits may not apply to the user's device.

Do not operate or store the appliance in temperatures outside the limits specified in the product device manual.

Laser Peripherals or Devices



CAUTION

To avoid risk of radiation exposure or personal injury, Do not open the enclosure of any laser peripheral or device. Laser peripherals or devices are not user serviceable, so return to manufacturer for servicing.

Equipment Handling Practices



CAUTION

To reduce the risk of personal injury or equipment damage, conform to local occupational health and safety requirements when moving and lifting equipment. Use mechanical or other suitable assistance when moving and lifting equipment.

Commercial Product Device Regulatory Compliance and Certification



WARNING

To help ensure safety regulatory compliance of the final integrated product, the user must adhere to the provided assembly instructions to ensure and maintain compliance with existing product certifications and approvals.

Use only the described, regulated components specified. Use of other products or components will void the Nemko or other National Recognized Test Laboratory (NRTL) Certification Listing and other regulatory approvals. This event will most likely result in noncompliance with product regulations in the regions in which the product is sold.

To help ensure electromagnetic compatibility (EMC) compliance with user's local regional rules and regulations, before system integration, ensure that the chassis, power supply, and other modules are compliant with local EMC requirements or laws.

Product Regulatory Compliance

Intended Application: Commercial Product Devices are evaluated as Information Technology Equipment (ITE), which can be installed in offices, computer rooms, and similar commercial type locations. This equipment is not suitable for use in locations where children are likely to be present.

The suitability of this product for other product categories and environments (such as: medical, industrial, telecommunications, NEBS, residential, alarm systems, test equipment, and so forth), other than an ITE application might require further evaluation.



Commercial Product Devices have been tested and comply with the appropriate following safety, EMC, and product environmental regulations and requirements.

Product Safety Compliance

- UL60950 – CSA 60950(USA / Canada)
- EN60950 (Europe)
- IEC60950 (International)
- CB Certificate & Report, IEC60950 (report includes all country national deviations)
- CE - Low Voltage Directive 2014/30/EU (Europe)

Product EMC Compliance – Class A Compliance

- FCC Part 15 Subpart B – Emissions USA Verification
- ICES-003/NMB-003 – Emissions Canada Verification
- CISPR 22 – Emissions (International)
- EN55022 – Emissions (Europe)
- EN55024 – Immunity (Europe)
- EN55032:2012 (Europe)
- EN61000-3-2 – Harmonics (Europe)
- EN61000-3-3 – Voltage Flicker (Europe)
- CE – EMC Directive 2014/35/EC (Europe)
- CE – RoHS 2011/65/EU (Europe)
- VCCI Emissions (Japan)
- AS/NZS CISPR 22 Emissions (Australia / New Zealand)
- BSMI CNS13438 Emissions (Taiwan)
- MISP Certification (Korea)
- KN 32 (Korea)
- KN 35 (Korea)

FCC Verification Statement (USA)

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, and (2) this device must accept any interference received, including interference that may cause undesired operation.

RT Logic, 12515 Academy Ridge View, Colorado Springs CO 80921 United States

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 not installed and used in accordance with the instruction manual, 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 their own expense.

ICES 003/NMB 003 (Canada)

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the interference-causing equipment standard entitled “Digital Apparatus,” ICES-3/ NMB-3 of the Canadian Department of Communications.

Cet appareil numérique respecte les limites bruits radioélectriques applicables aux appareils numériques de Classe A prescrites dans la norme sur le matériel brouilleur: “Appareils Numériques”, NMB-003 édictée par le Ministre Canadien des Communications.

Europe (CE Declaration of Conformity)

This product has been tested in accordance to, and complies with, the Low Voltage Directive (2014/35/EU), EMC Directive (2014/30/EU) and RoHS Directive (2011/65/EU). The product has been marked with the CE Mark to illustrate its compliance.

VCCI (Japan)

この装置は、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。 VCCI-A

English translation of the notice above:

This is a Class A product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take corrective actions. VCCI-A

BSMI (Taiwan) EMC Notice

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

MSIP (Korea)

Korea EMC Certification requires additional information about the product. If there is no room to place this information on the product, the following information will be provided in the product literature:

1. Type of Equipment (Model Name): Model name is on KC Certificate marked on product.
2. Certification No: Certification number is on KC certificate and marked on product.

3. Name of Certification Recipient: Kratos Defense & Security Solutions Inc. name is on KC Certificate marked on product.
4. Date of Manufacture: Date of manufacturer is a part of date code serial number on the product.
5. Manufacturer/Nation: Country of origin marked on the product

Product Regulatory Compliance Markings

Commercial Product Devices are typically marked with the following regulatory / certification markings. Some of the certification markings vary depending on the certifier that was used to obtain a certification.

Regulatory Compliance	Country	Marking
RCM	Australia / New Zealand	
IRAM	Argentina	
NRTL (National Recognized Test Laboratory)	USA/Canada	
CE Mark	Europe	
FCC Marking (Class A)	USA	This device complies with Part 15 of the FCC Rules. Operation of this device is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation. Manufactured by Intel Corporation
EMC Marking (Class A)	Canada	CAN ICES-003/NMB-003 A
VCCI Marking (Class A)	Japan	<div style="border: 1px solid black; padding: 5px;">この装置は、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。 VCCI-A</div>

Regulatory Compliance	Country	Marking
BSMI Certification (RPC) Number & Class A Warning	Taiwan	 <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>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</p> </div>
Korea MSIP mark (Ministry of Science, ICT and Future Planning)	Korea	
Waste of Electronic and Electrical Equipment Recycling Mark	Europe (EU)	 <p>Product must not be disposed of with household waste. It is the user's responsibility to bring it to a designated collection point for the recycling of waste electrical and electronic equipment. For more information, contact the local waste collection centre or point of purchase.</p>
China CQC/CCC approval Mark	China	
China Restriction of Hazardous Substance Environmental Friendly Use Period Mark	China	
China Recycling Mark	China	
Recycling Marks	International	
Battery Perchlorate Warning Information	California	Perchlorate Material - special handling may apply. See www.dtsc.ca.gov/hazardouswaste/perchlorate

Electromagnetic Compatibility Notices

Refer to the product specific Declaration of Conformity for the actual standards used at the time the device was placed on the market.



Unless stated otherwise, the device is a Class A product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take corrective actions.

Any changes or modifications of this device not expressly approved by Kratos could void the user's authority to operate the equipment. The user is responsible for ensuring compliance of the modified product.

Only peripherals (computer input/output devices, terminals, printers, etc.) that comply with Class A or Class B limits may be attached to this product. Operation with non-compliant peripherals is likely to result in interference to radio and TV reception.

All cables used to connect to peripherals must be as specified by the peripheral manufacture or manufactures intent. If required, it is the installer's responsibility to use shielded and/or grounded cables. Operation with cables, connected to peripherals that are not shielded and grounded may result in interference to radio and TV reception.

Product Environmental Compliance

- Europe - European Directive 2011/65/EC - Kratos is fully committed to comply with the RoHS Directive 2011/65/EU which restricts the use of the use of six substances in electrical and electronic products: Lead (Pb), Mercury (Hg), Cadmium (Cd), Hexavalent chromium (Cr VI), Polybrominated biphenyls (PBBs), and Polybrominated diphenyl ethers (PBDEs).
 - Kratos' goal is to meet and exceed compliance obligations of the RoHS Directive on a global basis.
 - Kratos is working to virtually eliminate RoHS substances (to levels below legal limits) for all Kratos Commercial Products, except where removal of the restricted substances is not technically possible and their existence in the products at levels in excess of these concentrations is allowed as one of the particular applications listed in the Annex to the RoHS Directive.
- WEEE Directive 2012/19/EU (Europe).
- REACH Directive EC 1907/2006.