Safety, Regulatory and Compliance Information

Safety, regulatory and compliance information for the "NodeGrid Serial Console" console server is described in this document.

Safety and environmental guidelines for rack mounting the NSC

The following considerations should be taken into account when rack mounting the ZPE Systems NodeGrid Serial Console.

Temperature
The manufacturer's maximum recommended ambient temperature for the NodeGrid Serial Console is 122 ºF (50 ºC).

Elevated operating ambient temperature
If the console server is installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient temperature. Therefore, consideration should be given to installing the equipment in an environment compatible with the manufacturer's maximum rated ambient temperature. See above.

Reduced air flow
Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised.

Mechanical loading
Mounting of the equipment in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading.

Circuit overloading
Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of circuits might have on overcurrent protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.

Reliable earthing
Reliable earthing of rack mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit, such as power strips or extension cords.

Safety precautions for operating the NodeGrid Serial Console

Please read all the following safety guidelines to protect yourself and your ZPE Systems NodeGrid Serial Console.

WARNING: Do not operate your ZPE Systems NodeGrid Serial Console with the cover removed.

CAUTION: To avoid shorting out your ZPE Systems NodeGrid Serial Console when disconnecting the network cable, first unplug the cable from the Host Server, unplug external power (if applicable) from the equipment and then unplug the cable from the network jack. When reconnecting a network cable to the back of the equipment, first plug the cable into the network jack and then into the host server equipment.

CAUTION: To help prevent electric shock, plug the ZPE Systems NodeGrid Serial Console into a properly grounded power source. The cable is equipped with a three-prong plug to help ensure proper grounding. Do not use adaptor plugs or remove the grounding prong from the cable. If you have to use an extension cable, use a three-wire cable with properly grounded plugs.

CAUTION: To help protect the ZPE Systems NodeGrid Serial Console from electrical power fluctuations,

use a surge suppressor, line conditioner or uninterruptible power supply. Be sure that nothing rests on the cables of the console server and that they are not located where they can be stepped on or tripped over. Do not spill food or liquids on console server. NodeGrid Serial Console may reboot with surge of -2kV at the input power.

CAUTION: Do not push any objects through the openings of the ZPE Systems NodeGrid Serial Console. Doing so can cause fire or electric shock by shorting out interior components.

CAUTION: Keep your ZPE Systems NodeGrid Serial Console away from heat sources and do not block host's cooling vents.

CAUTION: The ZPE Systems NodeGrid Serial Console DC models are to be installed with a maximum 20A Listed circuit breaker or branch-rated fuse.

CAUTION: The ZPE Systems NodeGrid Serial Console DC-powered models are only intended to be installed in restricted access areas (dedicated equipment rooms, equipment closets or the like) in accordance with Articles 110-18, 110-26 and 110-27 of the National Electrical Code, ANSI/NFPA 701, 1999 Edition. Use 18 AWG or 0.75 mm2 or above cable to connect the DC configured unit to the Centralized D.C. Power Systems. Install the required double-pole, single-throw, DC rated UL Listed 20A listed circuit breaker or branch-rated fuse between the power source and the ZPE Systems NodeGrid Serial Console DC version. Minimum Breaker Rating: 2A. Required conductor size: 18 AWG or larger. Fuses provided with unambiguous cross-reference to servicing instructions (F1). End product servicing instructions to contain fuse type and ratings- 3 A, 125 V DC.

CAUTION: To reduce the risk of fire, use only No. 26 AWG or larger UL Listed or CSA Certified Telecommunication Line Cord (for example, 24 AWG).

CAUTION: The ZPE Systems NodeGrid Serial Console AC models have one or two power supply cords. Disconnect the power supply cord(s) before servicing to avoid electric shock.

WARNING: 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 appropriate measures.

Working inside the console server

Do not attempt to service the console server yourself, except when following instructions from ZPE Systems Technical Support personnel. In the latter case, first take the following precautions:
• Turn the console server off.
• Ground yourself by touching an unpainted metal surface on the back of the equipment before touching anything inside the unit.

Electrostatic Discharge (ESD) precautions

When handling any electronic component or assembly, you must observe the following antistatic precautions to prevent damage.

• Always wear a grounded wrist strap when working around printed circuit boards.
• Treat all assemblies, components and interface connections as static-sensitive.
• Avoid working in carpeted areas.
• Keep body movement to a minimum while removing or installing boards to minimize the buildup of static charge.

Replacing the battery

CAUTION: There is the danger of explosion if the battery is replaced incorrectly. Replace the battery only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions.

Laser Safety

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