

SUPERMICR[®] SuperServer E403-9D-16C/14CN-IPD2 Quick Reference Guide

System Warning and Caution

Warnings

- Installation work and electrical wiring must be done by qualified person(s) in accordance with all applicable codes, standards and national wiring regulations.
- Use this unit only in the manner intended by the manufacturer. If you have questions, please contact the manufacturer.
- Install the system in accordance with the instructions in this installation manual. Improper installation may result in electric shocks or fire.
- Make sure that all wiring is secured, the specified wires are used, and there is no strain on the terminal connections or wires.
- Before servicing or cleaning the unit, switch power off and disconnect the power supply.
- Be sure to use only the specified accessories and parts for installation work.
- The system shall be not accessible to the general public.

Caution

- Do not place any objects on/in the system.
- Do not block air inlets or outlets.
- Do not install the system at any place where there is a danger or flammable gas leakage.
- Do not touch the air inlets, outlets, or aluminum fins of the unit.
- Be aware of any potential risks when installing, inspecting, maintaining, or repairing the system.
- Do not topple the system while in transport or storage.
- Please keep children away from the system.

Precaution

- Only install the system on a pole with a diameter of between 5" and 10".
- Ensure that the pole is capable to withstand the weight of the system before installation.
- Various pole types and materials are regulated in different regions, please refer to local regulations before mounting the system on a pole.
- Keep a 4ft (122cm) clearance around the pole to provide operating space.
- Use only the designed components and fasteners; using alternative components will invoke unpredictable risk.
- When not servicing, always keep all covers/panels/door on the server closed. These must be in place to allow for proper airflow and to prevent overheating.
- If surface paint becomes scratched or chipped off, touch it up with outdoor-use paint.

Caution

SAFETY INFORMATION

IMPORTANT: See installation instructions and safety warning before connecting system to power supply.
http://www.supermicro.com/about/policies/safety_information.cfm

WARNING:

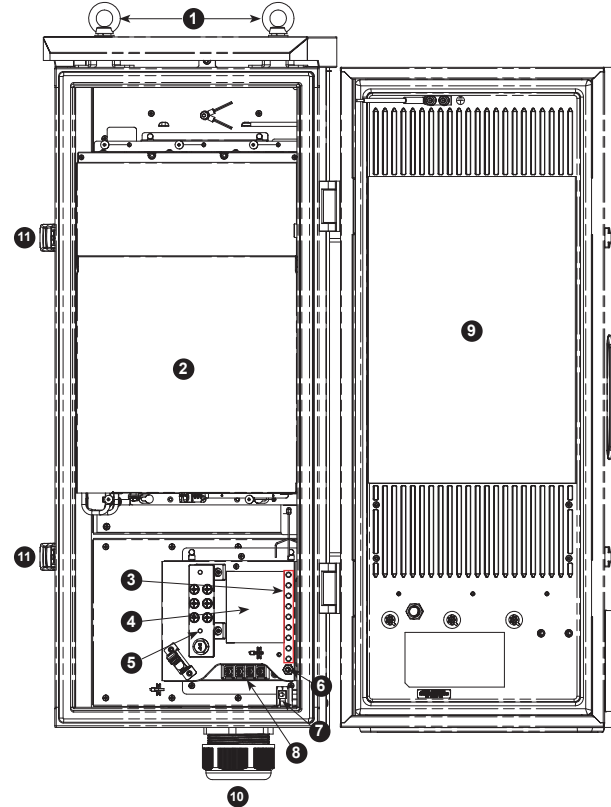
To reduce risk of electric shock/damage to equipment, disconnect power from server by disconnecting all power cords from electrical outlets.
 If any CPU socket empty, install protective plastic CPU cap.

WARNING:

Always be sure all power supplies for this system have the same power output. If mixed power supplies are installed, the system will not operate.

For more information go to: <http://www.supermicro.com/support>

IP65 Enclosure Features



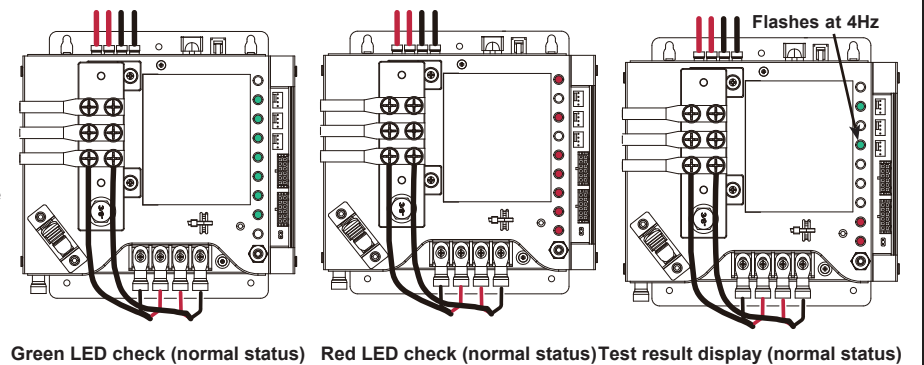
Item	Features
1	Hoist Rings
2	Server
3	Info LEDs
4	Power & Control Board
5	Grounding
6	Test Button
7	Cabinet Intrusion
8	DC Power Input
9	Heat Exchanger
10	Cable Gland
11	Buckle

Health Diagnostic LED States

Info LEDs					
No.	Description	Indication	No.	Description	Indication
1	Thermal Sensor	Red light: thermal sensor fail	6	Fan2	Green: fan2 is operating Red: fan fail Light off: no power to Fan2
2	Server Power	Green light on: power is being supplied to the server Light off: no power being supplied to the server	7	Fan3	Green: fan3 is operating Red: fan fail Light off: no power to Fan3
3	Heater Power	Green light: heater is on Red light: heater fail Light off: heater is off	8	Fan4	Green: fan4 is operating Red: fan fail Light off: no power to Fan4
4	Control Power	Green light on: system in powered on Green light blinking: enclosure under test	9	Intrusion	Intrusion detected
5	Fan1	Green: fan1 is operating Red: fan fail Light off: no power to Fan1			

- 1. Thermal Sensor
- 2. Server Power
- 3. Heater Power
- 4. Control Power
- 5. Fan1
- 6. Fan2
- 7. Fan3
- 8. Fan4
- 9. Intrusion
- Test Switch

The enclosure has the ability to examine the health of its various components. By pressing the test button for at least three seconds, the enclosure will enter the diagnostic mode and the green LEDs will illuminate as shown in the left image. Press the test button again and a red LED pattern will illuminate, as shown in the middle image. Do this to check if any LEDs are malfunctioning. After checking the LEDs, press the test button once more and the enclosure will begin to test the sensors, the heater, and the fans. During this test, the control power LED will blink at 1Hz, and then at 4Hz to indicate the diagnostics have completed. If the test returns a normal status (no problems found), the LEDs will be shown in the right image. Press the test button a final time and the enclosure will return to normal operating mode.



IP65 Enclosure Features and Mounting Procedure

Tools: Adjustable wrench with diameter 3/4 (19mm)
 Phillips and flathead screwdrivers
 Measuring tape
 Surge protection devices (SPD)
 Outdoor shielded dual-conductor cable (12 AWG)
 Outdoor grounding wire (6 AWG)
 Marking pen
 316L stainless hose clamp, 15mm or wider (optional)

1. Remove the two screws under the mounting bracket to separate it from the cabinet.
2. Mark the desired mounting height.
3. Mount the bracket on the pole, making sure it is firmly secured.

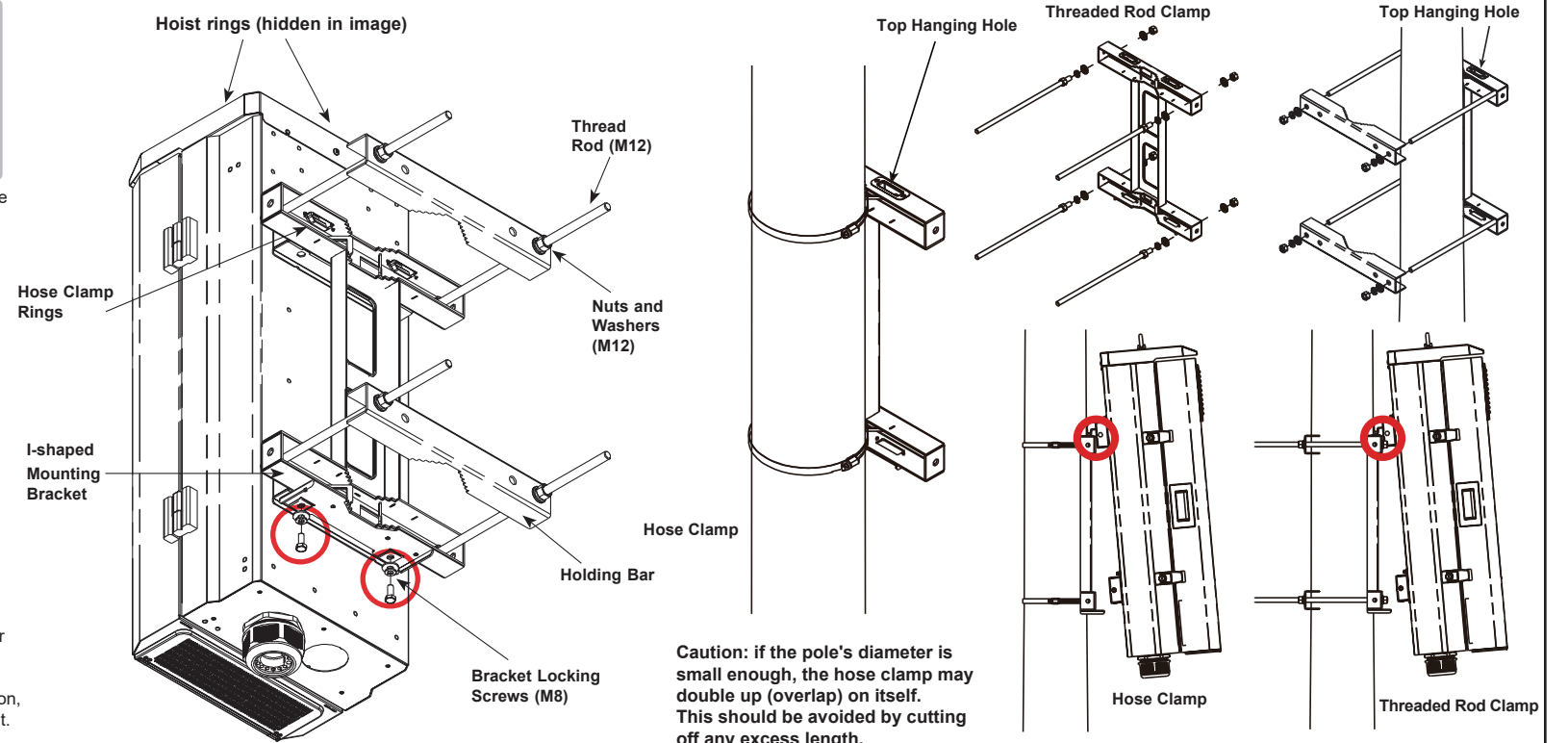
For Hose Clamp Rings:

- a. Orient the I-shaped mounting bracket to the top hanging hole.
- b. Push the mounting bracket firmly against the pole.
- c. Run the hose clamp around the pole and through the two hose clamp rings on the bracket and fasten tightly (first at the top and then the bottom).

For Threaded Rods:

- a. Assemble four threaded rods into the I-shaped mounting bracket with nuts and washers.
 - b. Orient the mounting bracket to the top hanging hole (using caution to avoid injury).
 - c. Push the mounting bracket firmly against the pole.
 - d. Fasten the bracket to the two holding bars with four M12 screws and eight washers until tight.
4. Install the two hoist rings to the top of the system, making sure they are securely fastened.
 5. Raise the system with the two hoist rings to the designated height (avoid scratching or casing damage to the surface paint).
 6. Hook the system on the bracket.
 7. Secure the cabinet to the bracket with the two screws removed from under the mounting bracket.

Important: if the surface coating is scratched or scraped off during transport or installation, the damaged surface must be touched up with appropriate external-use paint.



Caution: if the pole's diameter is small enough, the hose clamp may double up (overlap) on itself. This should be avoided by cutting off any excess length.

