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# **Silicon Graphics® Zx10™ 5U Rackmount Owner's Guide Addendum**

This document provides an addendum to the *Silicon Graphics Zx10 5U Rackmount Owner's Guide* (P/N 007-4328-002). This addendum discusses the following topics:

- “Before Mounting a Rackmount System” on page 1
- “450 W Power Supply” on page 1

## **Before Mounting a Rackmount System**

When observing the safety precautions associated with mounting a system in an equipment rack (in Chapter 1 of the owner's guide), include the following:

- Ensure that heavier equipment is installed at the bottom of the equipment rack to prevent the rack from becoming top-heavy.

## **450 W Power Supply**

Your system may have shipped with a 450 W power supply, which is different from the one described in the owner's guide. Note the following:

- You do not need to set the power supply voltage because it is auto-ranging. There is no AC voltage selection switch on this power supply.
- The information on connecting to AC power (in Chapter 1 of the owner's guide) applies to the 450 W power supply.
- The information on replacing the power supply (in Chapter 9 of the owner's guide) applies to the 450 W power supply.

The 450 W power supply is auto-ranging from 90-264 VAC (10 percent tolerance). The input frequency is 47-63 Hz, single phase. Input current is 8 A maximum for the 115 VAC

range and 4 A maximum for the 230 VAC range. The typical efficiency is 70 percent at maximum output load. Table 1 shows the DC output specifications for the power supply.

**Table 1** DC Output Specifications

| <b>Outputs</b>                | <b>1</b>          | <b>2</b>          | <b>3</b>          | <b>4</b> | <b>5</b>          |
|-------------------------------|-------------------|-------------------|-------------------|----------|-------------------|
| Nominal output voltages (VDC) | +5.0              | +3.3              | +12.0             | -12.0    | +5.0<br>(Standby) |
| Maximum current rating (ADC)  | 30<br>(40 A peak) | 35<br>(40 A peak) | 15<br>(20 A peak) | 0.3      | 1                 |

Standby +5.0 VDC output voltage is always on.

The power supply has one power cable, P1. The cable ends in a 24-pin connector that connects to a 24P-to-20P (2x) adapter, which in turn connects to the system board.

The power supply has five peripheral device power cables. Each cable contains two connectors for peripheral devices. One of these connectors (P9) is specifically for the floppy disk drive. Table 2 lists the connectors on each peripheral device power cable.

**Table 2** Peripheral Device Power Cable Connectors

| <b>Cable</b> | <b>Connectors</b>        |
|--------------|--------------------------|
| 1            | Power supply (P2 - P3)   |
| 2            | Power supply (P4 - P5)   |
| 3            | Power supply (P6 - P7)   |
| 4            | Power supply (P8 - P9)   |
| 5            | Power supply (P11 - P12) |

Table 3 shows pinouts for the system board power cable connectors.

**Table 3** System Board Power Connector Pinout

| Pin | Signal         | Pin | Signal        | Pin | Signal          | Pin | Signal     |
|-----|----------------|-----|---------------|-----|-----------------|-----|------------|
| 1   | +3.3 V         | 7   | Ground        | 13  | + 3.3 V         | 19  | Ground     |
| 2   | +3.3 V         | 8   | Power Good    | 14  | - 12.0 V        | 20  | No Connect |
| 3   | Ground         | 9   | 5.0 V Standby | 15  | Ground          | 21  | + 5.0 V    |
| 4   | +5.0 V + Sense | 10  | + 12.0 V      | 16  | Power Supply On | 22  | + 5.0 V    |
| 5   | Ground         | 11  | + 12.0 V      | 17  | Ground          | 23  | + 5.0 V    |
| 6   | + 5.0 V        | 12  | + 3.3 V       | 18  | Ground          | 24  | Common     |

Table 4 shows pinouts for power cable connectors P2-P8, P11, and P12.

**Table 4** P2 - P8, P11, P12 Connector Pinout

| Pin | Signal | Pin | Signal  |
|-----|--------|-----|---------|
| 1   | +5.0 V | 3   | Ground  |
| 2   | Ground | 4   | +12.0 V |

Table 5 shows pinouts for power cable connector P9.

**Table 5** P9 Connector Pinout

| Pin | Signal  | Pin | Signal |
|-----|---------|-----|--------|
| 1   | +12.0 V | 3   | Ground |
| 2   | Ground  | 4   | +5.0 V |