

intel® Technical Advisory

TA-692-1

5200 NE Elam Young Parkway
Hillsboro, OR 97124

October 30, 2003

DC Power Supply for the Intel® Server Chassis SR2300 Is Now Available

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Products Affected

Product	Product Codes
SR2300	KSW KSWNA SE7501WV2SKU02 SE7501WV2S02NA

Description

The Intel® Server Chassis SR2300 with the Intel® Server Board SE7501WV2 installed can now support a DC Power Supply. Customers must purchase the standard Server Chassis SR2300 and replace the Power Supply Cage and Module with the DC Power Supply Cage (Product Code: TLPDCCAGE02, MM#: 853624) and the DC Power Supply Module (Product Code: TLPDCPSU002, MM# 853625). When using the Intel® Server Chassis SR2300 shipping material with the DC configuration, the chassis packaging material must also be modified and the FRU/SDR needs to be updated to version 5.6.A or later.

The DC power supply has a terminal block in the rear of chassis. The terminal block requires extra physical space in the chassis packaging. Refer to the pictures below:

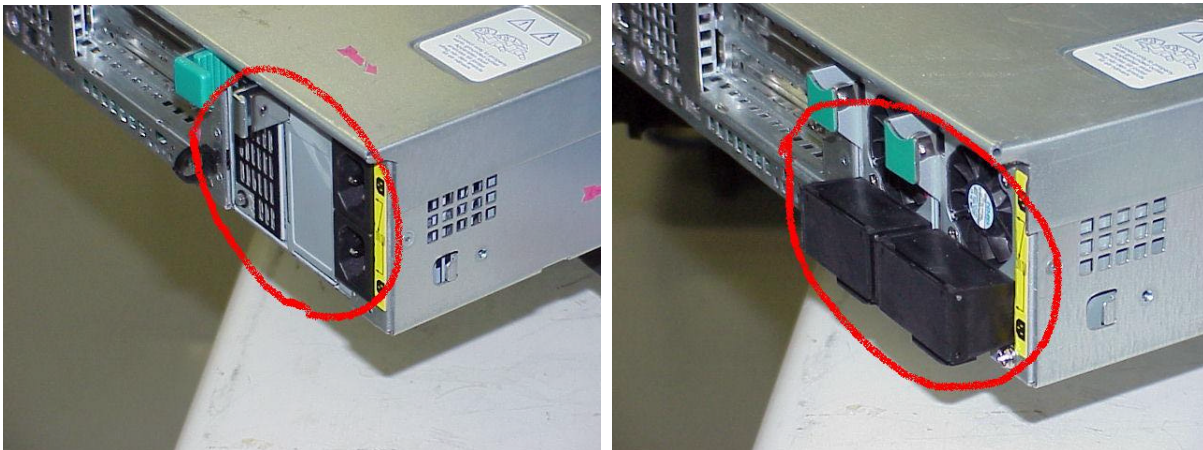


Fig. 1 DC power supply chassis (right) Vs. AC power supply chassis (left)

When using the Intel® Server Chassis SR2300 shipping material, customers must modify the packaging for the Intel® Server Chassis SR2300 in order to accommodate the DC power supply Cage and Module. Refer to the pictures below for the before and after modification.

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(1)



(2)



(3)



(4)

Figures (1) and (3) are before modification. Figures (2) and (4) are after modification. This packaging change has been both Packaged Shock and Vibration tested by Intel.

Intel had released FRU/SDR version 5.6.A to add support for the DC power supply Cage and Module. Customers must update the FRU/SDR to version 5.6.A or later. The latest FRU/SDR can be downloaded from Intel's secure web site, IBL, or from the following Intel customer support website:

<http://support.intel.com/support/motherboards/server/se7501wv2/>

Please refer to the FRU/SDR 5.6.A release notes for more information.

Customers must follow the installation instructions shown in the following section to connect the DC power supply Cage to the power source. Please refer to the Intel® Server Chassis SR2300 Product Guide pages 53-55 for how to replace a power supply Cage and Module. The Product Guide can be found from the following Intel customer support website:

http://support.intel.com/support/motherboards/server/chassis/sr2300/sr2300_pg.htm

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Installation Instruction

DC Power Input for the DC Power Supply Cage

A DC power terminal block is provided at the rear of the DC-input power supply cage.

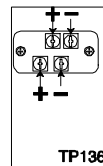


Figure 1. DC Power Input Connector

The terminal block will accept standard terminal lugs size Newark* stock # 81N1501 type CRS-T0-1406-HT that accept 14 AWG wire gauge. The width (W in Figure 2) of the lug can be no larger than 0.25 inches.

The DC-input connector has two sets of screw terminals. Both sets of terminals should be wired using 14AWG wire. Each terminal input should be fused with a maximum of 10A fuse.

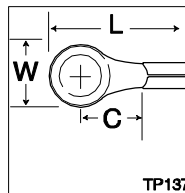


Figure 2. DC Power Terminal Lug

To connect the earth ground conductor to the chassis stud:

1. Place a #8-32 nut on the chassis stud and tighten to 10 in-lb.
2. Place the earth ground wire terminal lug on the chassis stud.
3. Place another #8-32 nut on the chassis stud so that the earth ground wire terminal is between the two nuts and tighten the second nut to 10 in-lb.

Please contact your Intel Sales Representative if you require more specific information about this issue.

Enterprise Platforms & Services Division
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