

intel® Technical Advisory

TA-762-1

5200 NE Elam Young Parkway
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Transient current from some power-supplies may cause a continuous reboot when running the onboard NIC2 at gigabit speed on the Intel® Server Board SE7501CW2

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Products Affected:

Prod Code	MM#	TA#	PBA#
SE7501CW2	852945	C30360-004	C26740-305
	852945	C30360-005	C26740-306
BCW533BB	860091	C28924-305	C26740-305
	860091	C28924-306	C26740-306

Description:

Transient current from some power-supplies, including some power-supplies supported with the Intel® Server Board SE7501CW2, may cause the Intel® Server Board SE7501CW2 to manifest continuous power-cycling when the onboard gigabit network controller (NIC2) is operating at gigabit speed.

Root Cause:

The Intel Server Board SE7501CW2 may manifest a continuous power-cycling event when the onboard Intel® 82540EM Ethernet Controller (NIC2 closest to the PCI-X slots) is connected to a gigabit switch running at gigabit speed. Systems that meet this configuration may continuously reboot while attempting to run at gigabit speed. This anomaly can be induced by power-supplies that do not provide sufficient dynamic current on the 5-volt standby rail. Intel expects only a small number of systems based on the SE7501CW2 board will exhibit this failure.

Corrective Action / Resolution:

Intel has found that increasing the bulk capacitance on the 5-volt standby circuit should increase the dynamic current response of the board and increase the board's ability to handle this out of spec power-supply variation. A detailed Server Board SE7501CW2 circuit change is being implemented in the factory for this issue. Refer to PCN 104938-00 for detailed board capacitor changes and board availability.

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

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