intel®Technical Advisory

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Intel® Server Board SE7221BK1-E Operating Temperature Specification

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Products Codes Affected
SE7221BK1, SE7221BK1LX, BBKBB, BBKBBLX

Description
The system-level operating temperature limits of the Intel® Server Board SE7221BK1-E integrated with the Intel Server Chassis SC5250-E are +10°C to +30°C. These operating temperature limits are de-rated from Intel's standard system-level operating temperature limits of +10°C to +35°C. The de-rating applies specifically to the Intel Server Board SE7221BK1-E when integrated with the Intel Server Chassis SC5250-E, and does not apply to other board/chassis configurations not noted here. The board-level operating temperature limits of the Intel Server Board SE7221BK1-E is 0°C to +55°C. These are the standard board-level operating temperature limits for all Intel server board products.

When the Intel Server Board SE7221BK1-E is integrated with the Intel Server Chassis SC5250-E, operating the server system at an ambient temperature above +30°C may cause unpredictable system behavior, including but not limited to, system hangs, lockups, blue screen failures, and kernel panics.

Root Cause
Intel found it necessary to de-rate the Intel Server Board SE7221BK1-E when integrated with the Intel Server Chassis SC5250-E due to thermal test non-compliance of Intel's standard system-level operating temperature limits. The heat transfer characteristics of the Intel Server Chassis SC5250-E were specifically designed for the Intel Xeon™ Processor, and as such, not optimized for the Intel Server Board SE7221BK1-E.

Corrective Action / Resolution
If customers require system-level operating temperatures in excess of +30°C, Intel recommends using a chassis solution other than the Intel Server Chassis SC5250-E with the Intel Server Board SE7221BK1-E. For a list of third party chassis compatible with the Intel Server Board SE7221BK1-E, please visit the Intel support website at the following URL:

http://support.intel.com/support/motherboards/server/se7221bk1-e/sb/CS-016586.htm

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

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