Intel® Leap ahead™

Introducing the Intel® Desktop Board D5400XS

The first dual-socket desktop board from Intel: multi-core, multi-tasking, and multi-talented

Whether it's digital photography, video editing, or extreme gaming, today's super-sized entertainment demands breakthrough technology. The groundbreaking Intel® Dual-Socket Extreme Desktop Platform is the first dual-socket desktop board from Intel, the world leader in silicon innovation. With dual-CPU capability that provides up to 8-core processing, the Intel® Desktop Board D5400XS delivers outstanding performance for advanced digital media creation and editing. The new desktop board supports the latest processors based on Intel's cutting edge 45nm technology utilizing hafnium-infused circuitry, which delivers even greater performance and power efficiency. The new Intel® Core™2 Extreme processors running at 3.2 GHz deliver incredible headroom and overall system capabilities for today's demanding users.

The platform also delivers heart-pounding performance designed for the latest and greatest generation of multithreaded games and multimedia applications. Multiply your options for multi-core game titles using a platform with maximum performance. In a multitasking environment where simultaneous applications need maximum processing power, the Intel Desktop Board D5400XS will deliver an exceptional experience.

intel® EXTREME Series
Desktop Boards

Intel® Desktop Board D5400XS

The boxed Intel® Desktop Board D5400XS solution includes:

- Intel® Desktop Board D5400XS with 1600Mhz FSB support

- ATX 2.2 Compliant I/O Shield

- SATA and ATA 100/66 Cables

- Mounting Bracket for Optional Chipset Cooling Fan (fan not included)

- Board and Back Panel I/O Layout Stickers

- Quick Reference Guide

- Intel® Express Installer Driver and Software DVD

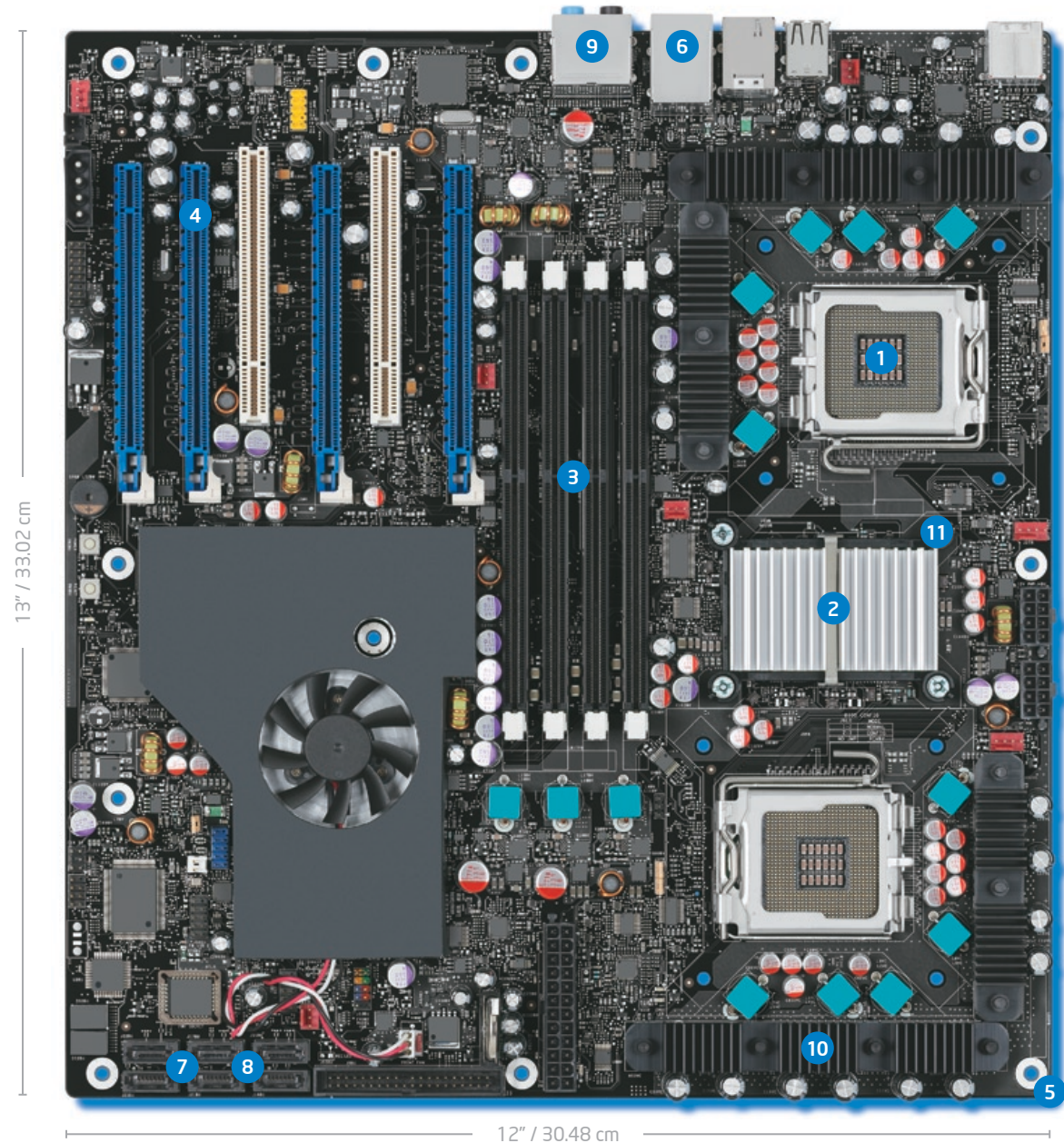- Windows Vista* Ultimate WHQL Certified

Software included:

- Diskeeper* Home Edition

- DivX* for Windows*

- Dolby* Control Center

- Norton Antivirus*

- TypePad*

- Kaspersky* Anti-Virus (Russian)

- Kingsoft* Antivirus (Chinese)

- Kingsoft* Powerword* (Chinese)

Intel® Desktop Board D5400XS

1 **Supports the latest 45nm Intel® Core™2 Extreme and Intel® Xeon® processors in the LGA771 package**

2 **Intel® 5400 Express Chipset**

3 **Four fully Buffered DIMM (FBDIMM) slots for DDR2 667/800 memory** up to 16GB[1] max

4 **Four PCI Express* 1.1 x16 Graphics Connectors** for certified Nvidia* SLI* and ATI* CrossFire* support

5 **Extended ATX (eATX) form factor**

6 **Intel® PRO 10/100/1000 Network Connection and up to 10 Hi-Speed USB 2.0 ports** (6 back USB ports)

7 **Six SATA ports, including two eSATA** (3.0 Gb/s)

8 **Intel® Matrix Storage Technology** (RAID 0, 1, 5, and 10)

9 **7.1 Surround sound with Dolby* Home Theater** (Intel® High Definition Audio)

10 **Exclusive voltage regulator heatsinks** provide reliable and silent cooling for extreme performance tuning

11 **Included fan bracket** for optional chipset cooling (uses standard 40mm fan, not included)

13" / 33.02 cm

12" / 30.48 cm

Technical Specifications

Power

Baseboard Power Requirements
- ATX12V

Environment

Operating Temperature
- 0° C to +55° C

Storage Temperature
- -40° C to +70° C

Regulations and Safety Standards

United States and Canada
   UL 1950, Third edition—CAN/CSA C22.2
   No. 950-95 with recognized U.S. and Canadian
   component marks

Europe
   Nemko certified to EN 60950

International
   Nemko certified to IEC 60950
   (CB report with CB certificate)

EMC regulations
(tested in representative chassis)

United States
   FCC Part 15, Class B
   FCC Part 15, Class B open-chassis (cover off)
   testing

Canada
   ICES-003, Class B

Europe
   EMC directive 89/336/EEC; EN 55022:1998
   Class B; EN 55024:1998

Australia/New Zealand
   AS/NZS 3548, Class B

Taiwan
   CNS 13438, Class B

International
   CISPR 22:1997, Class B

Power requirements vary. Complies with US CRF via EN55022 +6 db in system configurations with an open chassis and EU Directive 89/336/EEC and use via EN55022 and EN50082-1 in a representative chassis.

Lead-Free: The symbol is used to identify electrical and electronic assemblies and components in which the lead (Pb) concentration level in any of the raw materials and the end product is not greater than 0.1% by weight (1000 ppm). This symbol is also used to indicate conformance to lead-free requirements and definitions adopted under the European Union's Restriction on Hazardous Substances (RoHS) directive, 2002/95/EC.

Ordering Information: See the Intel Web site at www.intel.com.
For the most current product information, visit developer.intel.com/design/motherbd/

[1] System resources and hardware (such as PCI and PCI Express*) require physical memory address locations that can reduce available addressable system memory. This could result in a reduction of as much as 1 GB or more of physical addressable memory being available to the operating system and applications, depending on the system configuration and operating system.

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