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## Intel® Server Board S5000PAL

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### Outstanding performance, dependability and manageability for high-density solutions

The Intel® Server Board S5000PAL supports Dual-Core Intel® Xeon® processors using the

Intel® 5000P chipset, it delivers high levels of performance, reliability and manageability. Together, these capabilities address the needs of enterprise-level computing in space-constrained environments, particularly those running Internet, departmental database, data-center, and other high-transaction applications.

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### Product Information

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### Features and Benefits

<b>Dual-Core processing</b>	Multiplies server performance by doubling processing ability on a single chip, without increasing power consumption.
<b>Dual independent bus architecture</b>	Enables dedicated data flow to each processor, maximizing system performance.
<b>Fully buffered DIMM memory</b>	Increases capacity and memory bandwidth to keep pace with the processor and I/O performance enhancements.
<b>Intel® Extended Memory 64 Technology<sup>1</sup></b>	Extends the amount of available server memory.
<b>Intel® I/O Acceleration Technology (Intel® I/OAT)</b>	A platform innovation that helps get network data to and from server applications faster, while consuming far fewer CPU cycles.
<b>Intel® Virtualization Technology<sup>2</sup></b>	Turns a physical server into multiple systems (virtual machines) allowing multiple operating systems and applications to run inside a single platform.
<b>Execute Disable Bit<sup>3</sup></b>	Reduces exposure to viruses and prevents harmful software from executing on the server or network.

### Product Specifications

<b>Processor</b>	Dual-Core Intel® Xeon® processor
<b>System bus speed</b>	667MHz, 1066MHz and 1333MHz <sup>4</sup>

**System memory**

Memory capacity	32GB ECC Fully Buffered DDR2 (8 DIMMs) at 533 or 667
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**Integrated on-board**

Chipset	Intel® 5000P or 5000X <sup>4</sup> Chipset
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Intel® Server Network Connections	2 x Intel® PRO/1000 EB Ethernet connections with Intel® I/O Acceleration Technology (Intel® I/OAT)
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Integrated management type	IPMI 2.0-compliant onboard platform instrumentation Intel® System Management Software 1.0 Support for Intel® Remote Management Module Support for Intel® Local Control Panel
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Graphics	ATI* with 16MB memory
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**Network support**

Integrated LAN	2 x Intel® PRO/1000 EB Ethernet connections with Intel® I/O Acceleration Technology (Intel® I/OAT)
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<b>Hard disk drive support</b>	6 SATA 3Gb/s ports via ESB2 SAS and RAID options with Intel Chassis
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<b>I/O slots</b>	2 Riser slots utilizing Intel® Adaptive Slot Technology 4 PCI Express* buses (2x8 or 4x4) 1 PCI-X bus 1 Intel® I/O Expansion Module slot (PCI Express based)
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<sup>1</sup> Intel® EM64T requires a computer system with a processor, chipset, BIOS, operating system, device drivers and applications enabled for Intel® EM64T. Processor will not operate (including 32-bit operation) without an Intel® EM64T enabled BIOS. Performance will vary depending on your hardware and software configurations. See [www.intel.com/technology/64bitextensions/](http://www.intel.com/technology/64bitextensions/) for more information including details on which processors support Intel® EM64T or consult with your system vendor for more information.

<sup>2</sup> Intel® Virtualization Technology requires a computer system with an enabled Intel® processor, BIOS, virtual machine monitor (VMM) and for some uses, certain platform software enabled for it. Functionality, performance or other benefits will vary depending on hardware and software configurations. Intel Virtualization Technology-enabled BIOS and VMM applications are currently in development.

<sup>3</sup> Enabling Execute Disable Bit functionality requires a PC with a processor with Execute Disable Bit capability and a supporting operating system. Check with your PC manufacturer on whether your system delivers Execute Disable Bit functionality.

<sup>4</sup> 5000X chipset option is only offered as OEM 10 pack only.

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