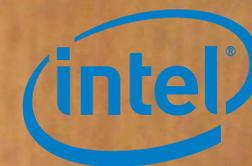




INTEL® DESKTOP BOARDS INNOVATION SERIES PRODUCT COMPARISON

INTEL® DESKTOP BOARDS INNOVATION SERIES: BUILT FOR OPPORTUNITY



The Intel® Desktop Boards Innovation Series integrate the low-power Intel® Atom™ processor to deliver energy-efficient performance in a small footprint. These boards accommodate unique usage models where customer needs include compact size, low power consumption, and cost efficiency.

Following is a feature listing of the Intel Desktop Board Innovation Series Boards. This listing will allow you to compare and contrast the differences in each product to help you select the best Intel Desktop Board for your application. For a full technical description of each board, visit: www.intel.com/products/desktop/motherboard/classic.htm
www.intel.com/products/desktop/motherboard/essential.htm

Please note: The Essential Series is being discontinued. No additional boards will be added to the Essential Series. Information on already shipping Essential Series Boards can be found in the Innovation Series for all Intel® Atom™ processor-based Essential Series Boards and in the Classic Series for all open socket Essential Series Boards.



Series	Innovation Series	Innovation Series	Innovation Series
Product Family	Intel® Desktop Board D525MW	Intel® Desktop Board D425KT	Intel® Desktop Board D510MO
Form Factor	Mini-ITX	Mini-ITX	Mini-ITX
Product Code / UPC	BOXD525MW / 00735858215206	BOXD425KT / 00735858215251	BOXD510MO / 00735858210362
10-pack Product Code / UPC	BLKD525MW / 00735858215183	BLKD425KT / 00735858215244	BLKD510MO / 00735858210379
Processor Support	Intel® Atom™ processor D525 integrated	Intel® Atom™ processor D425 integrated	Intel® Atom™ processor D510 integrated
Intel® QPI (GT/s)¹ / Supported FSB (MHz)	N/A	N/A	N/A
Chipset	Intel® NM10 Express Chipset	Intel® NM10 Express Chipset	Intel® NM10 Express Chipset
Supports HT Technology²	Yes	Yes	Yes
Integrated Graphics Core³	Intel® Graphics Media Accelerator 3150 (VGA)	Intel® Graphics Media Accelerator 3150 (VGA)	Intel® Graphics Media Accelerator 3150 (VGA)
Discrete Graphics Connector	N/A	N/A	N/A
Memory Support	DDR3 with two SODIMM connectors for 1066 / 800 MHz memory (4 GB ⁴ max)	DDR3 with two SODIMM connectors for 1066 / 800 MHz memory (4 GB ⁴ max)	DDR2 with two connectors for 800 / 667 MHz memory (4 GB ⁴ max)
Expansion Connectors	One PCI connector and One PCI Express* Mini Card connector	One PCI connector	One PCI connector and one PCI Express* Mini Card connector
Audio	Six-channel Intel® High Definition Audio ⁵ (three back panel analog ports)	Four-channel Intel® High Definition Audio ⁵ (three back panel analog ports)	Six-channel Intel® High Definition Audio ⁵ (three back panel analog ports)
USB Ports	Eight Hi-Speed USB 2.0 ports (four back panel ports, two additional ports via internal headers, one port for PCI Express Mini Card, and one port for flash card / Solid-State Drive)	Eight Hi-Speed USB 2.0 ports (four back panel ports and four additional ports via two internal headers)	Seven Hi-Speed USB 2.0 ports (four back panel ports, two additional ports via internal header, and one USB port for flash card / Solid-State Drive)
1394 Ports	N/A	N/A	N/A
Storage	Two SATA ports (3.0 Gb/s)	Two SATA ports (3.0 Gb/s)	Two SATA ports (3.0 Gb/s)
RAID	N/A	N/A	N/A
Onboard LAN	Integrated 10/100/1000 Network Connection	Integrated 10/100 Network Connection	Integrated 10/100/1000 Network Connection
Trusted Platform Module	N/A	N/A	N/A
Lead Free	Yes	Yes	Yes
Software	Intel AppUp SM Intel® Core Utilities Bundle ⁶ DivX* for Windows* ESET* Smart Security 4 Laplink* PCmover Express*	Intel AppUp SM Intel® Core Utilities Bundle ⁶ DivX* for Windows* ESET* Smart Security 4 Laplink* PCmover Express*	Intel® Core Utilities Bundle ⁶ DivX* for Windows* ESET* Smart Security 4 Laplink* PCmover Express* Norton Internet Security* 2009
BIOS	Intel® Easy Update Intel® Smart Recovery Unified Firmware Interface (UEFI)	Intel® Easy Update Intel® Smart Recovery Unified Firmware Interface (UEFI)	Intel® Easy Update Intel® Smart Recovery Unified Firmware Interface (UEFI)
Windows Vista* and WHQL Support	Windows* 7 Home Basic Windows* 7 Starter	Windows* 7 Home Basic Windows* 7 Starter	Windows* 7 Home Basic Windows* 7 Starter
Warranty	3 year limited warranty	3 year limited warranty	3 year limited warranty



Series	Innovation Series	Innovation Series	
Product Family	Intel® Desktop Board D410PT	Intel® Desktop Board D945GSEJT	
Form Factor	Mini-ITX	Mini-ITX / MicroATX-compatible	
Product Code / UPC	BOXD410PT / 00735858210416	N/A	
10-pack Product Code / UPC	BLKD410PT / 00735858210423	BLKD945GSEJT / 00735858206945	
Processor Support	Intel® Atom™ processor D410 integrated	Intel® Atom™ processor N270 integrated	
Intel® QPI (GT/s)¹ / Supported FSB (MHz)	N/A	533 MHz	
Chipset	Intel® NM10 Express Chipset	Intel® 945GSE Express Chipset	
Supports HT Technology²	Yes	Yes	
Integrated Graphics Core³	Intel® Graphics Media Accelerator 3150 (VGA)	Intel® Graphics Media Accelerator 950 (DVI + VGA)	
Discrete Graphics Connector	N/A	N/A	
Memory Support	DDR2 with two connectors for 800 / 667 MHz memory (4 GB ⁴ max)	DDR2 SDRAM with one connector for 533 MHz memory (2 GB max)	
Expansion Connectors	One PCI connector	One PCI Express* Mini Card connector and one PCI connector	
Audio	Four-channel Intel® High Definition Audio ⁵ (three back panel analog ports)	Four-channel Intel® High Definition Audio ⁵ (three back panel analog ports)	
USB Ports	Eight Hi-Speed USB 2.0 ports (four back panel ports and four additional ports via two internal headers)	Six Hi-Speed USB 2.0 ports (three back panel ports, one front panel port, and one additional USB port for Solid-State Drive)	
1394 Ports	N/A	N/A	
Storage	Two SATA ports (3.0 Gb/s)	Two SATA ports and one PATA 100 connector for up to two devices (44-pin mobile header)	
RAID	N/A	N/A	
Onboard LAN	Integrated 10/100/1000 Network Connection	Integrated 10/100/1000 Network Connection	
Trusted Platform Module	N/A	N/A	
Lead Free	Yes	Yes	
Software	Intel® Core Utilities Bundle ⁶ DivX* for Windows* ESET* Smart Security 4 Laplink* PCmover Express* Norton Internet Security* 2009	Intel® Core Utilities Bundle ⁶ Acronis* True Image 11 Home Diskeeper* Home Edition DivX* for Windows* Laplink* PCmover Express* Norton Internet Security* 2009	Skype* TypePad* WildTangent* WildGames* Kaspersky* Anti-Virus ⁷ Kingsoft* Antivirus ⁸ Kingsoft* Powerword* ⁸
BIOS	Intel® Easy Update Intel® Smart Recovery Unified Firmware Interface (UEFI)	Unified Firmware Interface (UEFI)	
Windows Vista* and WHQL Support	Windows* 7 Home Basic Windows* 7 Starter	Windows Vista* Basic	
Warranty	3 year limited warranty	3 year limited warranty	

For more information, visit the Intel Web site at: www.intel.com/products/desktop/motherboard/classic.htm or www.intel.com/products/desktop/motherboard/essential.htm

¹ Intel® QPI—Intel® QuickPath Interconnect: GT/s—Gigatransfers per second.

² Intel® Hyper-Threading Technology requires a computer system with a processor supporting HT Technology and an HT Technology-enabled chipset, BIOS, and operating system. Performance will vary depending on the specific hardware and software you use. For more information including details on which processors support HT Technology, see www.intel.com/info/hyperthreading.

³ Requires a processor with Intel® HD Graphics.

⁴ 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.

⁵ Intel® High Definition Audio requires a system with an appropriate Intel® chipset and a motherboard with an appropriate codec and the necessary drivers installed. System sound quality will vary depending on actual implementation, controller, codec, drivers, and speakers. For more information about Intel® HD Audio, refer to www.intel.com/design/chipsets/hdaudio.htm

⁶ The Intel® Core Utilities Bundle includes Intel® Integrator Assistant, Intel® Integrator Toolkit, Intel® Express Installer, and Intel® Express BIOS Update.

⁷ Russian only.

⁸ Chinese only.

Intel® Desktop Boards may contain design defects or errors known as errata, which may cause the product to deviate from published specifications. Current characterized errata are available on request. All products and dates specified are preliminary based on current expectations and are subject to change without notice. Availability in different channels may vary.

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