



Q1 2011

Get the Better Together Advantage With Intel® Desktop Boards

intelbettertogether.com



	Desktop Board	Form Factor	Package	Memory	Integrated Graphics Port ¹	PCIe* x16	PCIe x1	PCI	PATA (devices)	SATA 3 6.0 Gb/s	SATA 2 3.0 Gb/s (eSATA)	RAID	Audio	USB 3	USB 2 (ext+int)	1394 (ext+int)			2nd Gen	Prev Gen	2nd Gen	Prev Gen	2nd Gen	Prev Gen	
EXTREME	DX58S02	ATX	LGA1366	DDR3 2400		3	2	1		2	6 (2)	▪	10-ch	2	6+6	1+1	▪		▪						
	DX580G	ATX	LGA1366	DDR3 1600		2	3	1		2	6	▪	8-ch	2	6+6	1+1	▪		▪						
	DP67BG	ATX	LGA1155	DDR3 1600		1	3	2		2	4 (1)	▪	10-ch		8+6	1+1		▪		▪					
	DX58S0	ATX	LGA1366	DDR3 1600		3	1	1			6 (2)	▪	10-ch		8+4	1+1	▪		▪						
	DP55KG	ATX	LGA1156	DDR3 1600		2	2	2			8 (2)	▪	10-ch		8+4	1+1			▪		▪				
MEDIA	DP67BA	ATX	LGA1155	DDR3 1333		1	2	2		2	3 (1)	▪	10-ch	2	6+8	1+1			▪		▪				
	DP67DE	MicroATX	LGA1155	DDR3 1333		1	2	1		2	3 (1)	▪	10-ch	2	6+8	1+1			▪		▪				
	DH67CF	mini-ITX	LGA1155	DDR3 1333	DisplayPort+HDMI+DVI-I	1				2	2 (1)	▪	10-ch	2	4+6			2		▪		▪			
	DH67GD	MicroATX	LGA1155	DDR3 1333	DisplayPort*+HDMI+DVI-I	1	2	1		2	3 (1)	▪	10-ch	2	6+8	1+1			▪		▪		▪		
	DH67BL	MicroATX	LGA1155	DDR3 1333	HDMI+DVI-I	1	2	1		2	3 (1)	▪	10-ch	2	6+8				▪		▪		▪		
	DH67CL	ATX	LGA1155	DDR3 1333	HDMI+DVI-I	1	2	3		2	3 (1)	▪	10-ch	2	6+8				▪		▪		▪		
	DP55WG	ATX	LGA1156	DDR3 1600		2	2	2			6	▪	10-ch		8+6	1+1			▪		▪		▪		
	DP55WB	MicroATX	LGA1156	DDR3 1333		1	2	1			6	▪	8-ch		8+6	1+1			2		▪		▪		
	DH57JG	mini-ITX	LGA1156	DDR3 1333	HDMI+DVI	1					4 (1)	▪	10-ch		6+6				2		▪		▪		
	DH57DD	MicroATX	LGA1156	DDR3 1333	HDMI*+DVI	1	2	1			5 (1)	▪	10-ch		6+8	1+1			5 (1)		▪		▪		
	DH55TC	MicroATX	LGA1156	DDR3 1333	HDMI+DVI+VGA	1	2	1			6 (2)		8-ch		6+6					▪		▪		▪	
	DH55HC	ATX	LGA1156	DDR3 1333	HDMI+DVI+VGA	1	2	3			6 (2)		8-ch		6+6					▪		▪		▪	
EXECUTIVE	DQ57TM	MicroATX	LGA1156	DDR3 1333	DisplayPort+DVI+DVI	1	2	1			5 (1)	▪	6-ch		6+8				▪		▪		▪		
	DQ57TML	MicroATX	LGA1156	DDR3 1333	DVI+VGA	1	2	1			4	▪	6-ch		4+8				▪		▪		▪		
	DQ45EK ³	mini-ITX	LGA775	DDR2 800	DVI+DVI	1	1				4 (1)	▪	4-ch		6+4				▪		▪		▪		
	DH55PJ	MicroATX	LGA1156	DDR3 1333	DVI+VGA	1	2	1			4		8-ch		6+6				▪		▪		▪		
CLASSIC	DG43RK	MicroATX	LGA775	DDR3 1333 ⁴	HDMI+DVI	1	2	1			4		10-ch		6+6	1+1						▪		▪	
	DP43BF	ATX	LGA775	DDR3 1333 ⁴		1	2	4	1 (2)		5 (1)		10-ch		6+6	1+1						▪		▪	
	DP43BFL	ATX	LGA775	DDR3 1333 ⁴		1	2	4	1 (2)		5		10-ch		6+6							▪		▪	
	DG41TX	MicroATX	LGA775	DDR3 1333 ⁴	DVI+VGA	1	1	2	1 (2)		4		6-ch		4+4							▪		▪	
	DG41KR	MicroATX	LGA775	DDR3 1066	HDMI+VGA	1	1	2	1 (2)		4		10-ch		4+4							▪		▪	
INNOVATION	DG41AN	mini-ITX	LGA775	DDR3 1333 ⁴	DVI+VGA			1			3		6-ch		4+4							▪		▪	
	D525MW	mini-ITX		DDR3 SODIMM	VGA+LVDS			1			2		8-ch		4+2									▪	
	D425KT	mini-ITX		DDR3 SODIMM	VGA			1			2		4-ch		4+4									▪	
ESSENTIAL	DG41WV	MicroATX	LGA775	DDR3 1066	VGA	1	1	2			4		6-ch		4+4							▪		▪	
	D510MO	mini-ITX		DDR2 800	VGA			1			2		6-ch		4+3									▪	
	D410PT	mini-ITX		DDR2 800	VGA			1			2		4-ch		4+4									▪	
	D945GSEJT	mini-ITX		SODIMM	DVI+VGA			1	1 (2)		2		4-ch		3+3									▪	
DG41CN	MicroATX	LGA775	DDR2 800	VGA	1	1	2			4		6-ch		4+4								▪		▪	

For specific processor compatibility, visit <http://processormatch.intel.com>

For more information, visit the Intel Web site at: www.intel.com/products/motherboard

Q4'10 - Q2'11 Transition Guide

Series	Current	Q1'11	Q2'11
Extreme	DX58S0	DX58S02	>
		DX580G	>
	DP55KG	>	>
		DP67BG	>
Media	DH57DD	DH67GD	>
	DH57JG ²	DH67CF	>
	DH55HC	DH67CL	>
	DH55TC	DH67BL	>
	DP55WG	DP67BA	>
	DP55WB	DP67DE	>
		DH61AG	
Executive	DQ57TM	DQ67SW	>
	DQ57TML	>	>
	DQ45CB	DQ670W	>
	DQ45EK ³	DQ67EP	>
Classic	DH55PJ	>	>
	DG43RK	DH61BE	>
	DP43BF ⁵	>	>
	DP43BFL ⁵	>	>
	DG41KR	>	>
	DG41AN	DH61DL	>
	DG41MJ	>	>
	DG41TY	>	>
		DB65AL	>
	DG41WV ⁵	>	>
	DG41CN ⁵	DH61CR	>
Innovation	D525MW	>	>
	D425KT	>	>
	D510M0 ⁶	>	>
	D410PT ⁶	>	>
	D945GSEJT ⁶	>	>

Intel® Desktop Boards: Get the Better Together Advantage

Intel® Desktop Boards + 2nd Generation Intel® Core™ Processors = Better Together

The 2nd gen Intel® Core™ processor family offers smart performance with unique features that increase and adapt performance automatically to get the most out of your PC. First, Intel® Turbo Boost Technology⁷ 2.0 delivers an even greater burst of processor speed automatically when your PC needs extra performance. Second, Intel® Hyper-Threading Technology⁸ allows each processor core to work on two tasks at the same time for more responsive multitasking. These processors also offer a greater visual experience, with significant advances in visual and 3-D graphics capabilities. All this gives you a smooth visual experience without interruption or hesitation. We call that visibly smart performance. You'll call it amazing!

These key features, combined with improved baseline performance and energy efficiency, make the 2nd gen Intel Core processor family our smartest and most responsive processor family yet. Be sure to check out the full line of Intel Desktop Boards supporting these new processors.

Tired of Waiting?

Your wait is over with HyperBoot Technology. Intel has developed technology that can increase BIOS boot performance up to 70 percent⁹. HyperBoot Technology provides the option to disable any combination of pre-OS USB support, video support, and full boot device enumeration which, in turn, allows an increase in speed of boot times.

Safer than Ever

Never corrupt your BIOS again. Intel Desktop Boards now come with industry-leading BIOS Vault Technology which virtually removes the chance of BIOS corruption. Intel Desktop Boards are able to completely recover, even if power is lost during a BIOS update. The BIOS also self-heals so malicious attacks are thwarted. And all of this is done without additional cost, board space, or the risk of having two BIOS chips.

One Cool Board

Intel has optimized our board design using high-quality components to create a thermally and electrically balanced VR sub-system. Maximum ePower, exclusively on Intel Desktop Boards, allows you to have maximum power with minimum thermal stress.

Team Evil Geniuses and the Extreme Team

To show our support and commitment to the extreme gaming community, Intel has created the Extreme Team, a community of brilliant enthusiasts who use and create Intel Desktop Boards Extreme Series. We have joined forces with Team Evil Geniuses, the hottest gamers around. The team will use the latest Intel® Desktop Boards DX58S02 and DX580G Extreme Series in their competitions, and will communicate tips and tricks to get the best performance and highest scores. Look for the Extreme Team and Team Evil Geniuses at gaming events in 2011.

For more information on Intel® Desktop Boards, visit www.IntelBetterTogether.com

For more product information, visit www.intel.com/go/idb

¹ Requires a processor with Intel® HD Graphics.

² Requires a custom thermal solution—Pairing a mini-ITX chassis with the thermal solution supplied with an Intel® Core™ i7 processor will not meet the thermal requirements of an Intel Core i7 processor. Therefore, before pairing the Intel® Desktop Board DH67CF or DH57JG with an Intel Core i7 processor, verify that your thermal solution and chassis will meet the necessary thermal requirements. Failing to do so will cause the processor to throttle, significantly decreasing system performance.

³ Supports 65 W Thermal Design Power, Intel® Core™2 Quad and Intel® Core™2 Duo processors with 1333 / 1066 MHz system bus. For information, visit <http://processormatch.intel.com>

⁴ DDR3 1333 is supported through overclocking in BIOS.

⁵ Essential Series boards. Follow on products for these are now part of the Classic Series.

⁶ Essential Series boards. Follow on products for these are now part of the Innovation Series.

⁷ Intel® Turbo Boost Technology requires a PC with a processor with Intel Turbo Boost Technology capability. Intel Turbo Boost Technology performance varies depending on hardware, software, and overall system configuration. Check with your PC manufacturer on whether your system delivers Intel Turbo Boost Technology. See www.intel.com/technology/turboboost for more information.

⁸ 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

⁹ Software and workloads used in performance tests may have been optimized for performance only on Intel® microprocessors. HyperBoot Technology system configuration: Intel® Core™ i5-870 processor 2.93 MHz, Intel® Desktop Board DP55KG HyperX™ 4 GB (2 x 2) DDR3 1333 MHz memory, NVIDIA® GeForce® GTX 460 video card, Intel® Solid-State Drive X25-M 160 GB (two in RAID 0), LITEON® IHASS 324 DVD-RW optical drive, and Coolmax® CP-400 T 400 W power supply. Performance results are based on certain tests measured on specific computer systems. Any difference in system hardware, software, or configuration will affect actual performance. For more information, visit www.intel.com/performance

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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