True Gen3 Mainboards

Product Marketing EU
Dennis Achterberg

version 1.03eu

Gen3 in Press release

msi
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PRESS RELEASE
WEEK 27

MSI innovation with style

MSI launches the world's first PCI Express Gen 3 mainboard

and exclusive Click BIOS II with unified interface

MSI, the world-renowned mainboard and graphics card manufacturer, officially launches the Z68A-GD80 (G3), featuring world's first large bandwidth PCI Express Gen 3 mainboard, and the latest UEFI technology: Click BIOS II which features a homogenous interface both under Windows and the UEFI interface. Conforming to Intel's latest design standard, the MSI Z68A-GD80 (G3) with PCI Express Gen 3 provides a data transfer rate that is 200% faster than PCI Express Gen 2, enhancing the performance of graphics cards without bandwidth limitations. Click BIOS II, allows simple and intuitive system adjustments in both Windows and the UEFI interface! In addition, Z68A-GD80 (G3) utilizes MIL-810STD Certified Military Class II components and are equipped with OC Genie II technology which increases the performance of hard drive up to 457%. The MSI Z68A-GD80 (G3) enables next generation superior performance with PCI Express Gen 3 and OC Genie II, superb stability with certified Military Class II components and an extreme user-friendly Click BIOS II interface both in Windows and in the UEFI BIOS.

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News

GIGABYTE Announces Entire 6 Series Ready to Support Native PCIe Gen. 3

Future Proof Your Platform for Next Generation Intel 22nm CPUs

2011/08/08

Taipei, Taiwan, August 8, 2011 - GIGABYTE TECHNOLOGY Co., Ltd, a leading manufacturer of motherboards, graphics cards and computing hardware solutions today announced their entire range of 6 series motherboards are ready to support the next generation Intel 22nm CPUs (LGA1155 Socket) as well as offer native support for PCI Express Gen. 3 technology, delivering maximum data bandwidth for future discrete graphics cards.

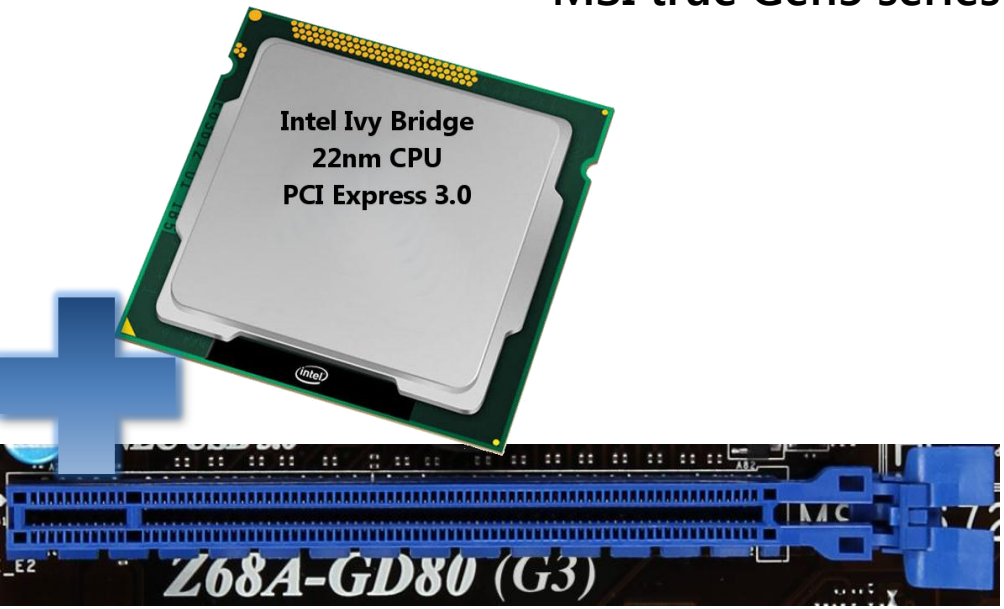
Wanting to provide maximum upgradeability to customers, GIGABYTE has enabled native support for PCI Express Gen. 3 across the entire range of GIGABYTE 6 series motherboards, including the recently launched G1.Sniper 2 motherboard, when paired with Intel's next generation 22nm CPUs. By installing the latest BIOS for their 6 series motherboards today, users can be assured they are ready to take advantage of all the performance enhancements tomorrow's technologies have to offer.

To future proof your GIGABYTE 6 series motherboard, please download and install the latest BIOS update for your motherboard model from the GIGABYTE website: http://www.gigabyte.us/

True vs. Fake

Intel Ivy Bridge CPUs with PCI Express Gen3 offer double the bandwidth, but ONLY on true Gen3 mainboards...

MSI true Gen3 series



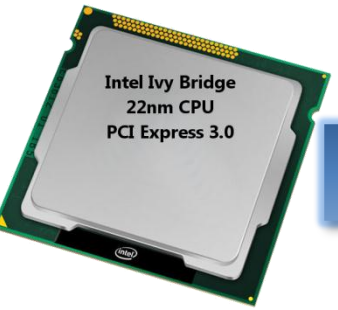
Gen3
32GB/s

Gigabyte Fake "Gen3" series

Gen2
16GB/s

Intel Gen3 Specifications

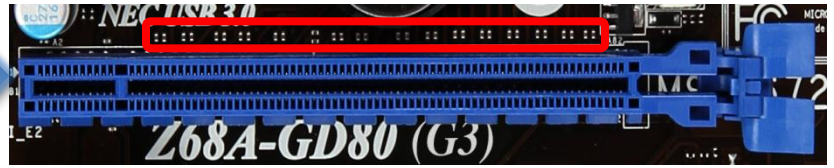
Component	MSI true Gen3 Series	Gigabyte Fake "Gen3"
1 Gen3 CPU Select (BIOS)	√	X
2 Gen3 CPU Voltage (BIOS)	√	X
3 Gen3 Switch Chips	√	X
4 Gen3 Spec Capacitors (220µF)	√	X (100µF)
5 Gen3 Spec Resistors (4k7Ω)	√	X (1KΩ)



Gen3

Gen3

4

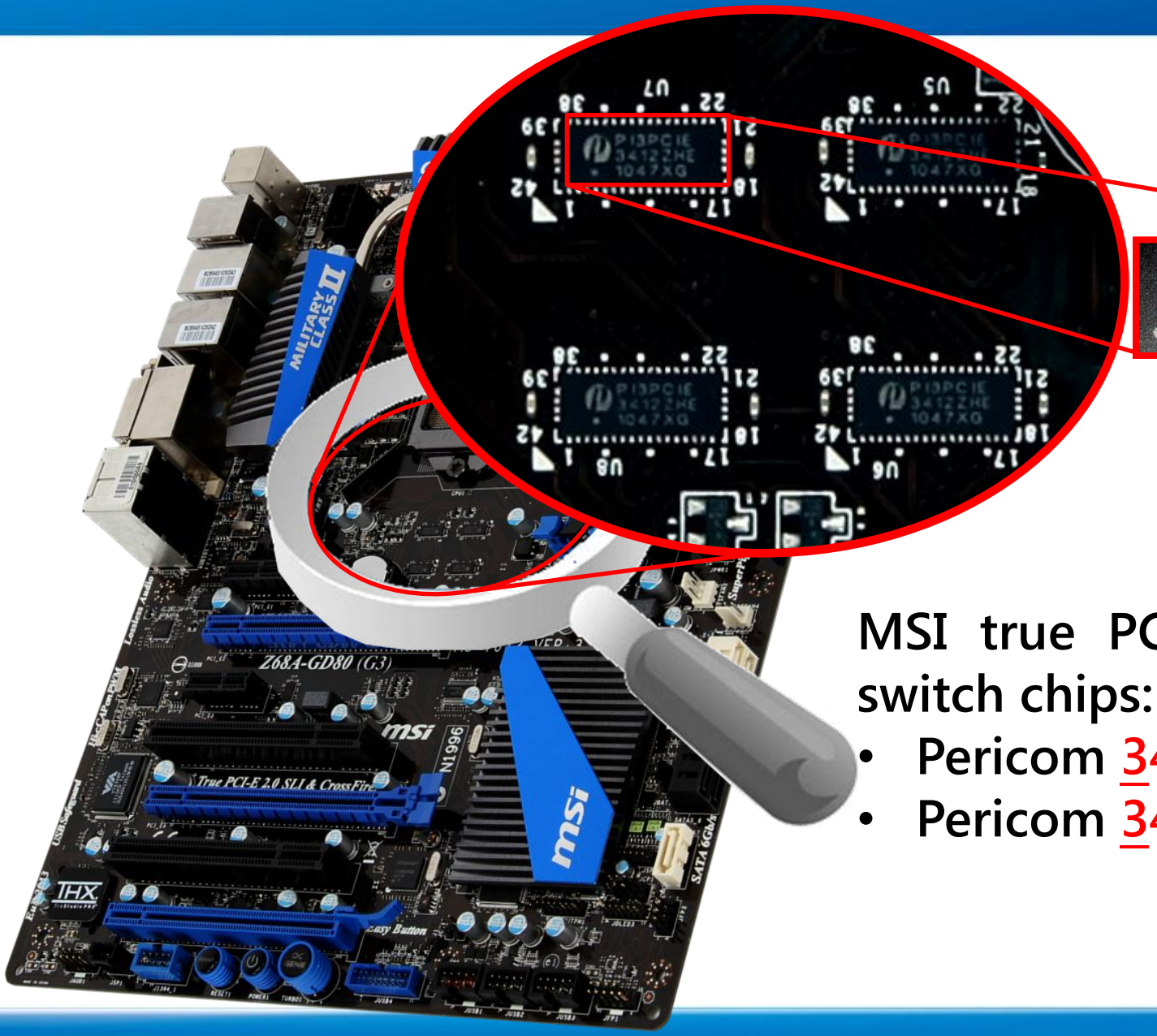


1 & 2

3

5

MSI: True Gen3 Switches



MSI true PCI Express Gen3 switch chips:

- Pericom 3412
- Pericom 3415

Gigabyte Fake Gen3 switch

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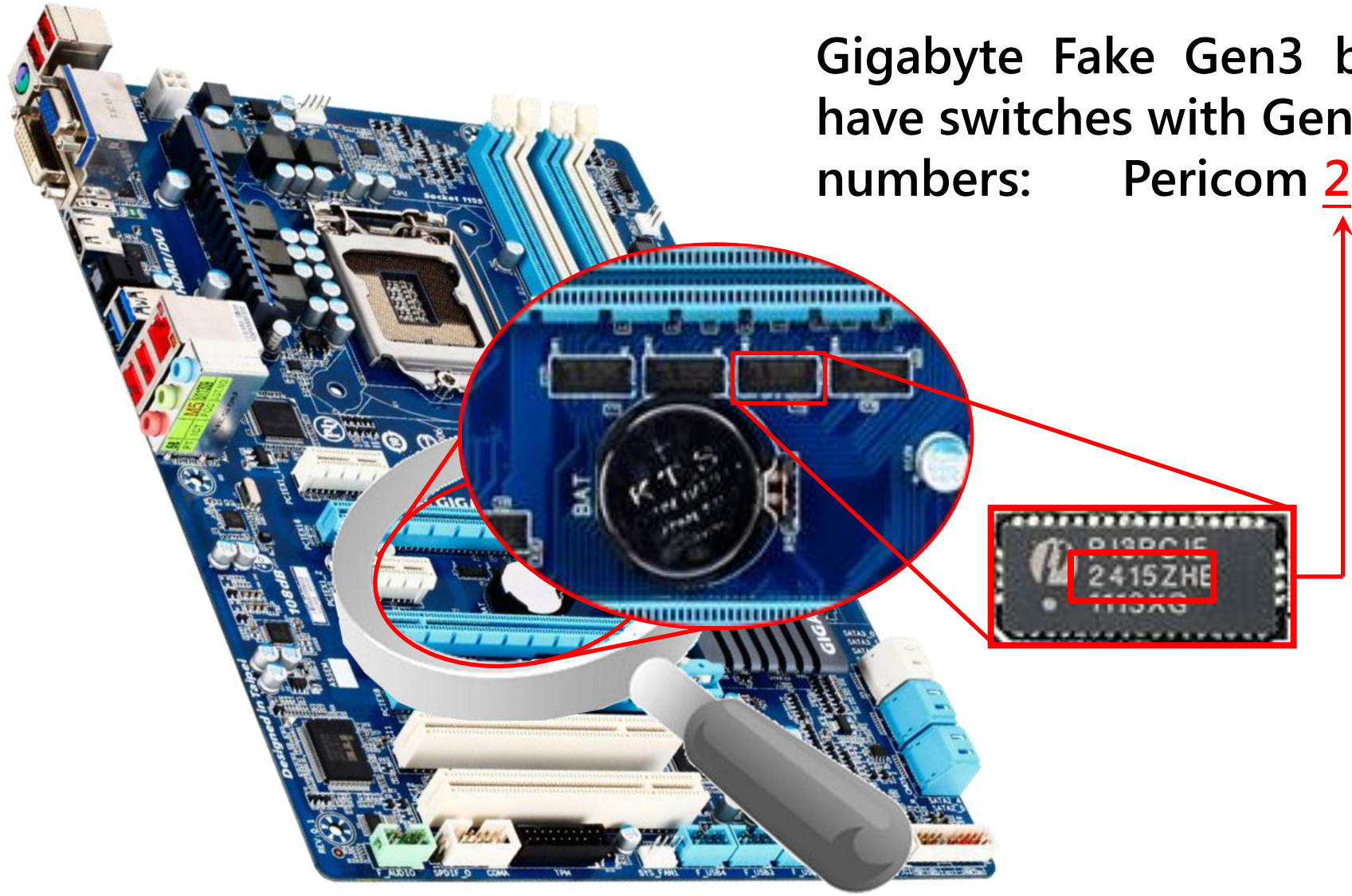
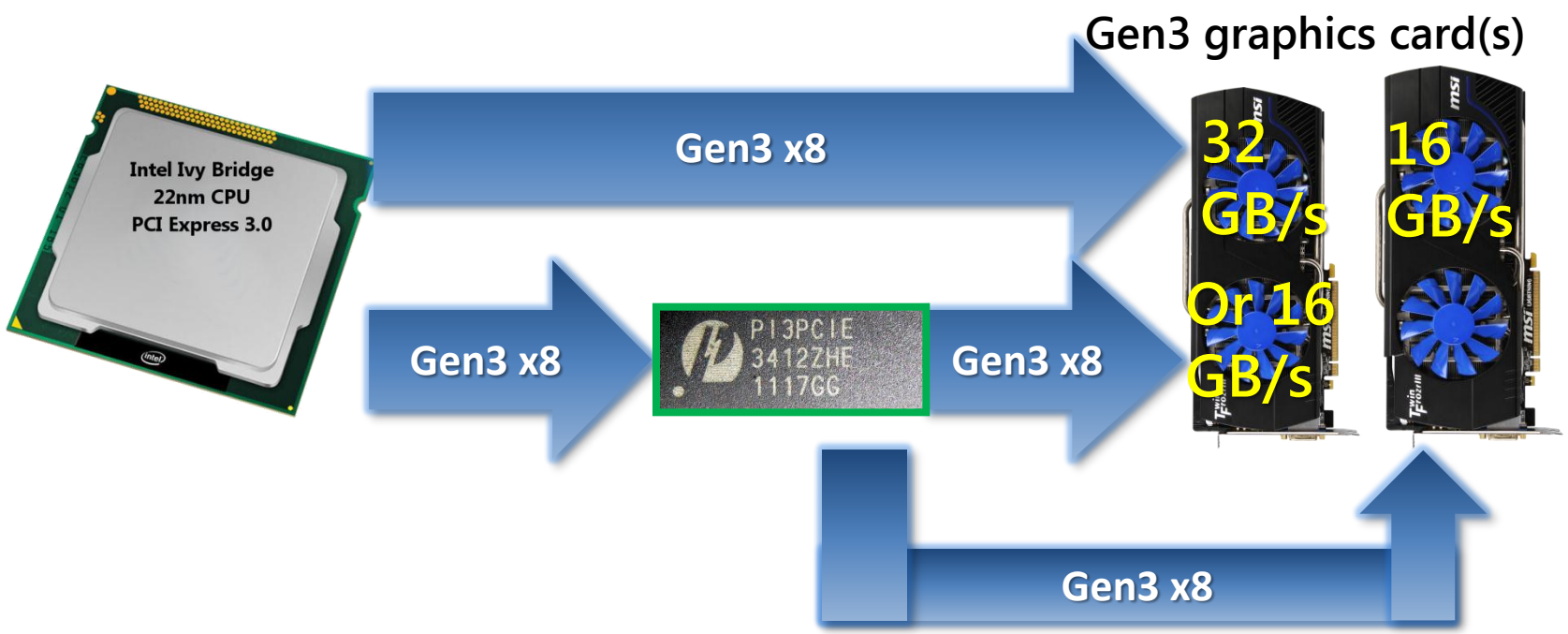


Gigabyte Fake Gen3 boards have switches with Gen2 part numbers: Pericom 2415

MSI True Gen3 support



32 GB/s Bandwidth Total!

PCI EXPRESS GEN3

Gigabyte Fake Gen3 support

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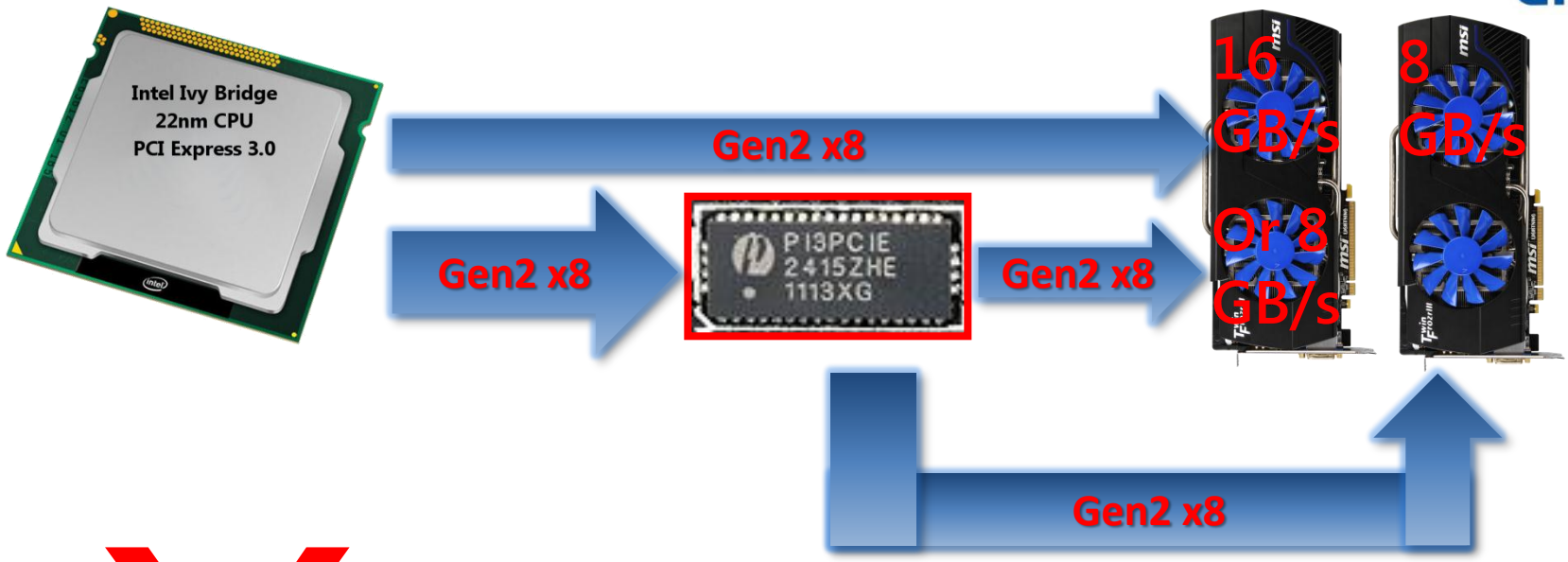
GIGABYTE®

If not all Gen3 components are available, Gen3 will never be enabled!



Only 16 GB/s Bandwidth

Gigabyte Fake Gen3 BIOS

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What happens when we take a Gigabyte "Gen3" Ready mainboard and test Future 22nm Gen3 capabilities?

GIGABYTE Announces Entire 6 Series Ready to Support Native PCIe Gen.3

Future Proof Your Platform for Next Generation Intel 22nm CPUs

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To future proof your GIGABYTE 6 series motherboard, please download and install the latest BIOS update

GIGABYTE 22nm CPU and PCIe 3.0 Ready Motherboards

	GA-Z68A-D3H-B3	F10
	GA-Z68MA-D2H-B3	F8
P67/H67	GA-P67A-UD5-B3	F6
	GA-P67A-UD4-B3	F5
	GA-P67A-UD5P-B3	F5
	GA-P67X-UD3R-B3	F4
	GA-P67A-UD3R-B3	F5
	GA-P67X-UD3-B3	F5
	GA-P67A-UD3-B3	F5
	GA-P67A-D3-B3	F4
	GA-P67-DS3-B3	F2
	GA-PH67A-UD3-B3	F5
	GA-PH67-UD3-B3	F4
	GA-PH67-DS3-B3	F2
	GA-PH67A-D3-B3	F4

Download type: BIOS

RSS

Version	Size	Date	Download Here	Description
F5	1.6 Mb	22/07/2011	Asia China America Europe Europe(Russia): FTP / HTTP	1. Support GIGABYTE TouchBIOS 2. Support Intel 22nm CPU
			Asia China America	

Gigabyte Fake Gen3 testing

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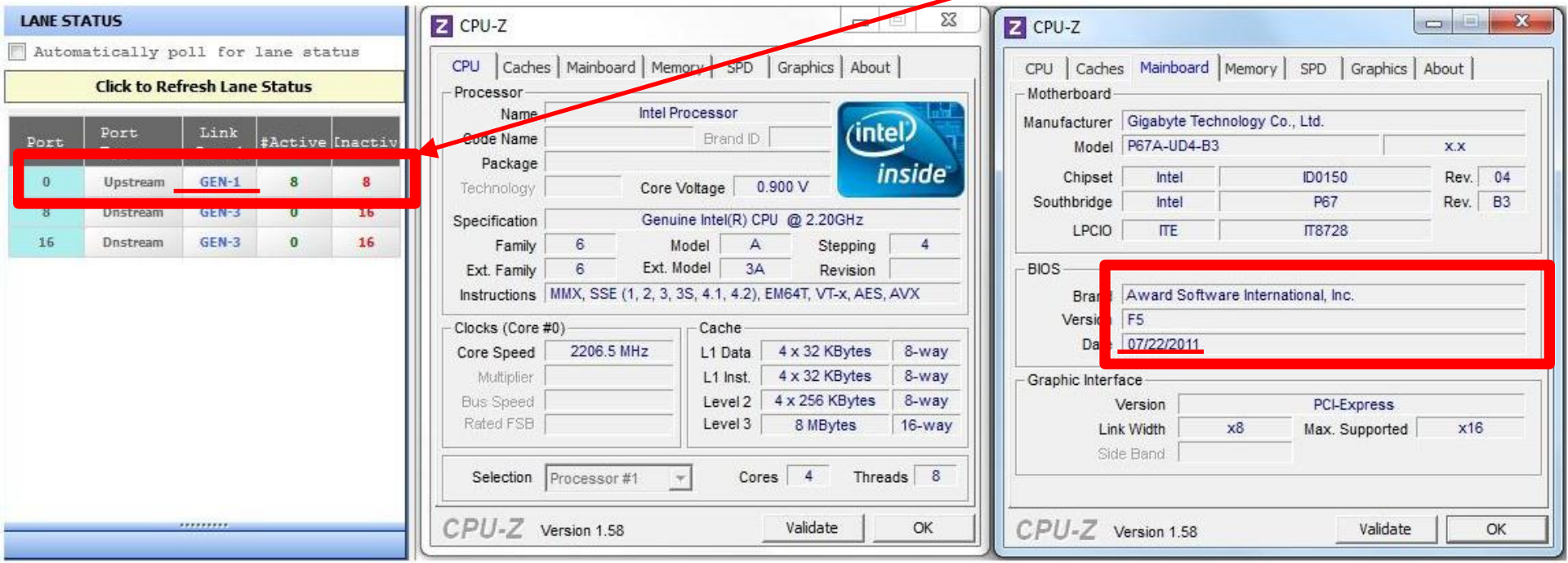
Testing a Gigabyte "Gen3 Ready" board with a future 22nm PCI Express 3.0 CPU.

Result: Gigabyte P67A-UD4-B3 switches down to GEN1 x8!



MSI True Gen3 testing

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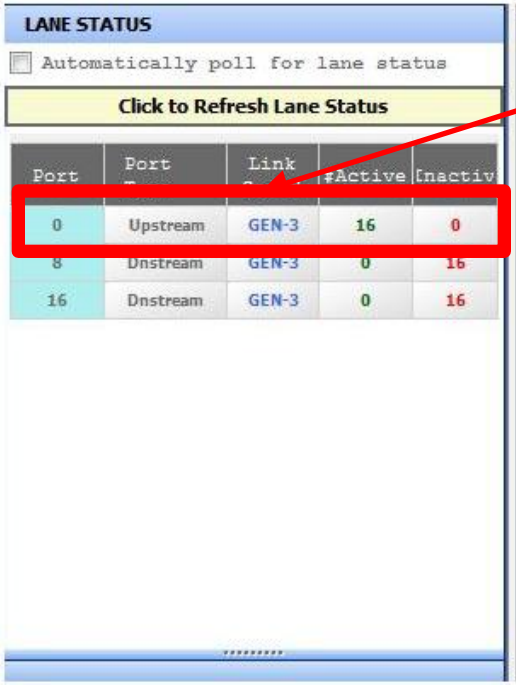
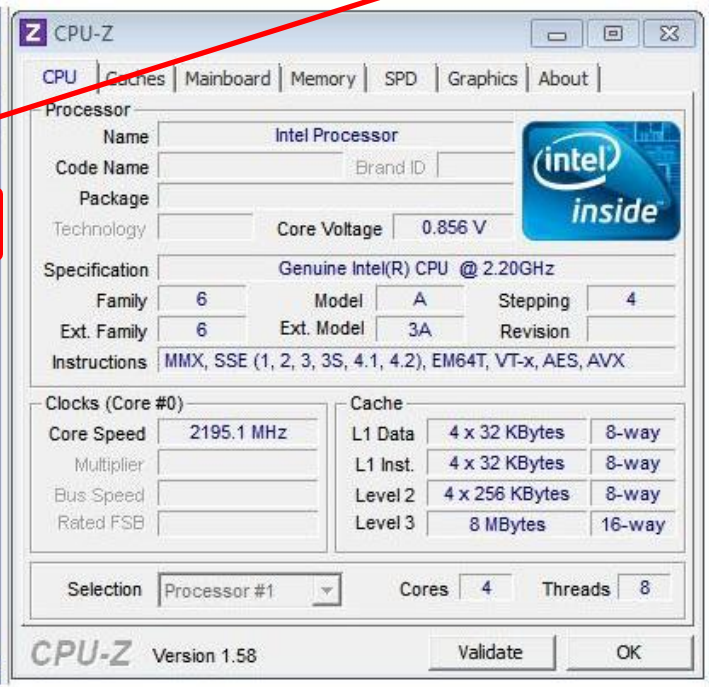
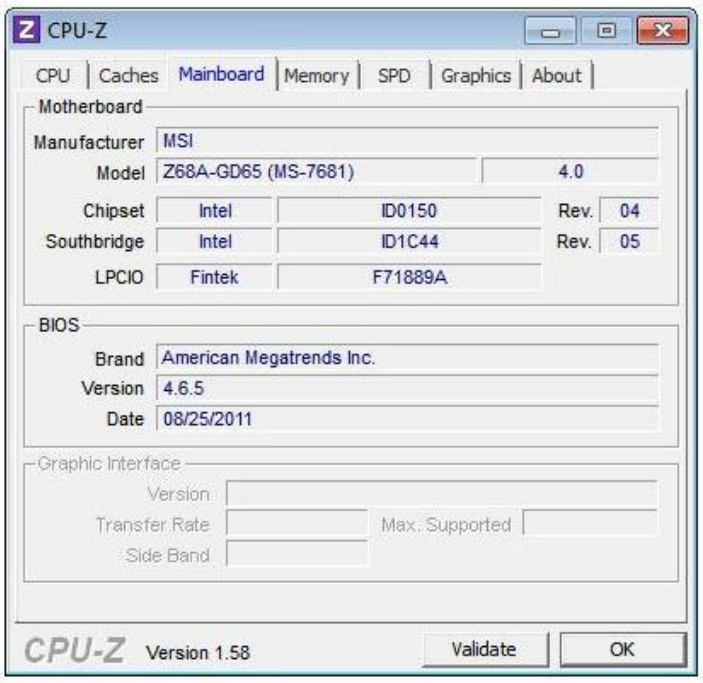
Testing a MSI Z68 Gen3 series mainboard with future 22nm PCI Express Gen3 CPU

Result: MSI Z68A-GD65 (G3) switches to Gen3 x16!







Gigabyte's true Gen3 models

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GIGABYTE 22nm CPU and PCIe 3.0 Ready Motherboards

Chipset	Model	BIOS
Z68	G1.Sniper 2	F3
	GA-Z68X-UD7-B3	F8
	GA-Z68XP-UD5	F3
	GA-Z68X-UD5-B3	F8
	GA-Z68XP-UD4	F3
	GA-Z68X-UD4-B3	F8
	GA-Z68XP-UD3P	F4
	GA-Z68X-UD3P-B3	F6
	GA-Z68XP-UD3R	F3
	GA-Z68X-UD3R-B3	F4
	GA-Z68X-UD3H-B3	F8
	GA-Z68XP-UD3	F4
	GA-Z68MX-UD2H-B3	F9
	GA-Z68A-D3H-B3	F10
	GA-Z68MA-D2H-B3	F8

Only 1 Model with Gen3

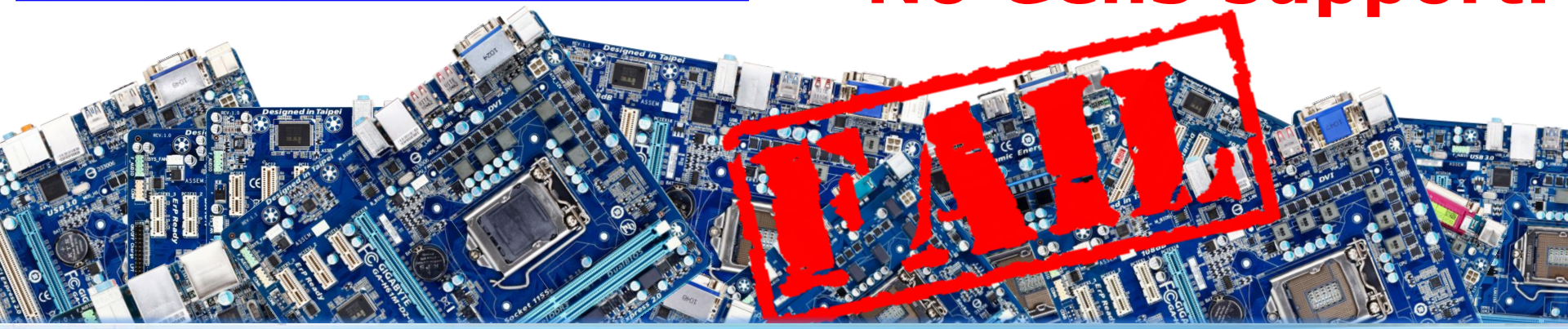
P67/H67	GA-P67A-UD5-B3	F6
	GA-P67A-UD4-B3	F5
	GA-P67A-UD3P-B3	F5
	GA-P67X-UD3R-B3	F4
	GA-P67A-UD3R-B3	F5
	GA-P67X-UD3-B3	F5
	GA-P67A-UD3-B3	F5
	GA-P67A-D3-B3	F4
	GA-P67-DS3-B3	F2
	GA-PH67A-UD3-B3	F5
	GA-PH67-UD3-B3	F4
	GA-PH67-DS3-B3	F2
	GA-PH67A-D3-B3	F4
	GA-H67A-D3H-B3	F5b
	GA-H67M-D2-B3	F5a
	GA-H67N-USB3-B3	F6e

H61	GA-H61M-D2P-B3	F6f
	GA-H61M-D2-B3	F7e
	GA-H61M-S2V-B3	F5g
	GA-H61M-USB3-B3	F8h
	GA-H61M-S2-B3	F2h
	GA-H61N-USB3	F2
	GA-HA65M-D2H-B3	F8o
	GA-P61-S3-B3	F4c
	GA-P61-DS3-B3	F3b
	GA-P61-USB3-B3	F8d
	GA-PA65-UD3-B3	F8c

All other boards?

No Gen3 support!

http://www.gigabyte.us/press-center/news-page.aspx?nid=1048



Future technology: now available

MSI Z68 Gen3 Mainboards:

- Double Performance
- Next-gen performance, today
- Future proof, Backwards compatible

MSI Gen3 line-up:
Z68A-GD80 (G3)
Z68A-GD65 (G3)
Z68A-GD55 (G3)
Z68A-G45 (G3)
Z68A-G43 (G3)

Only MSI has True PCI Express Gen3

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