

BRILLIANCE COMES FROM BALANCE

THE INTEL® H270 CHIPSET AND 7TH GEN INTEL® CORE™ PROCESSORS

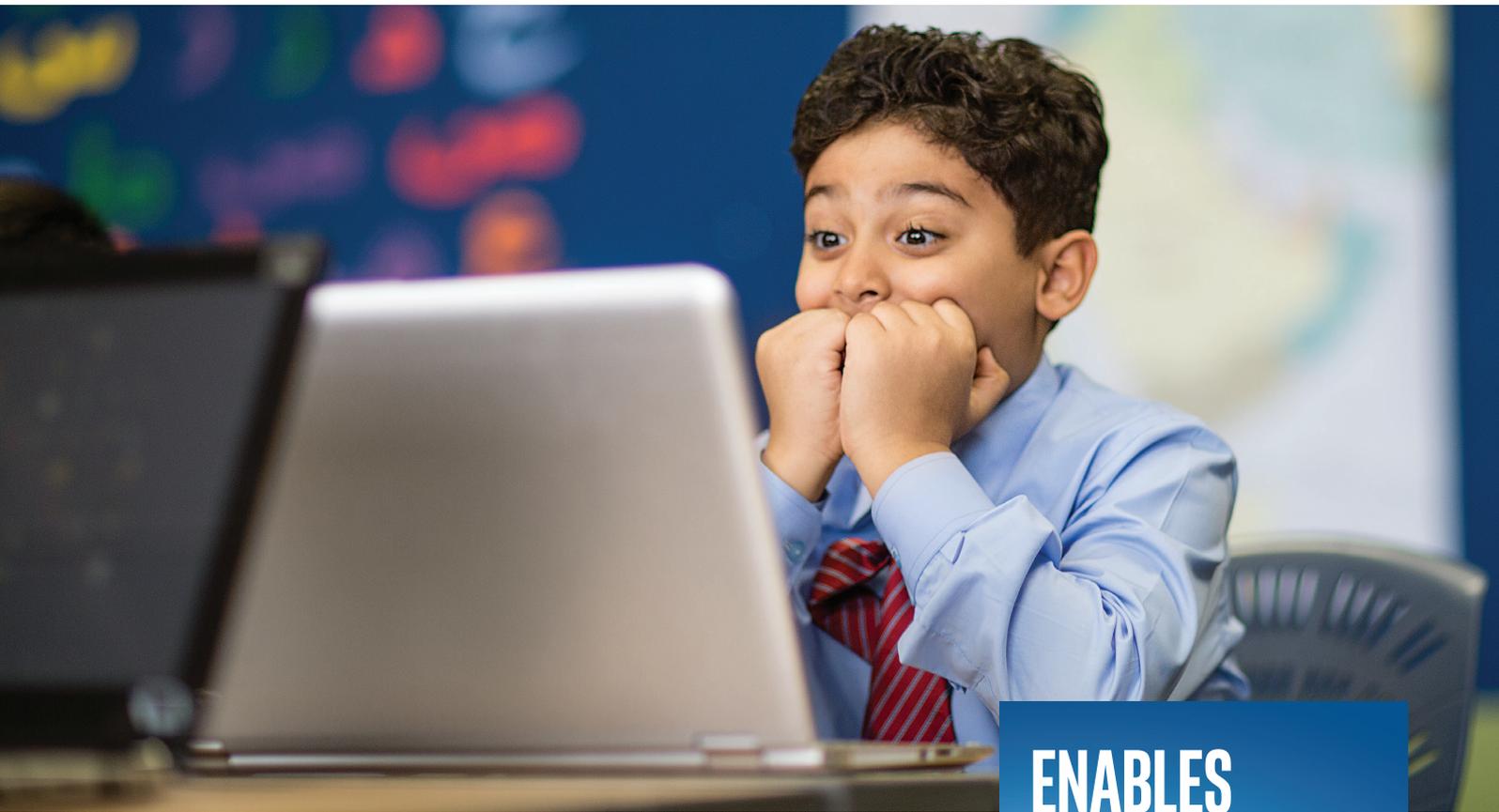
From checking out the newest games to putting the final touches on your photos and videos, the performance and flexibility from the new Intel® H270 chipset and 7th Gen Intel® Core™ processor is your solution.

REDEFINED PERFORMANCE FOR EVERYDAY USE

The Intel H270 chipset and 7th Gen Intel Core processors will allow content creators and gamers to reach new heights. Whether it is responsiveness or expandability, the Intel H270 chipset and 7th Gen Intel Core processors will provide you with Intel® Turbo Boost Technology 2.0¹ and Intel® Hyper-Threading Technology¹ to get you there. From content creation to gaming, the Intel H270 chipset will allow you to reach new goals and expand your imagination.

YOUR MEDIA... ALWAYS READY TO WOW

The Intel H270 chipset and 7th Gen Intel Core processors allow you quick access to your digital life with Intel® Ready Mode Technology.¹ Voice command support makes your life easier along with providing the assurance that your favorite apps are always up-to-date. Melt into the amazing sound on the H270 chipset with Intel® Smart Sound Technology.¹ Enhanced voice support and studio-quality sound will please even the most demanding audiophiles.



**ENABLES
HDR AND
PREMIUM 4K
CONTENT**

IMPROVED VISUALS ON INTEL® PROCESSOR GRAPHICS

Supporting the transformation and growth of media into 4K, 7th Gen Intel Core processors and the Intel H270 chipset enable premium 4K content.¹ For the first time ever, allow your eyes to see new colors with Wide Color Gamut.¹ Experience eye-popping visuals in HDR that will define the future viewing standard.¹ 3D movies come to life with Intel® InTru™ 3D technology.¹ The Intel H270 chipset also supports up to three independent displays² to get more done.

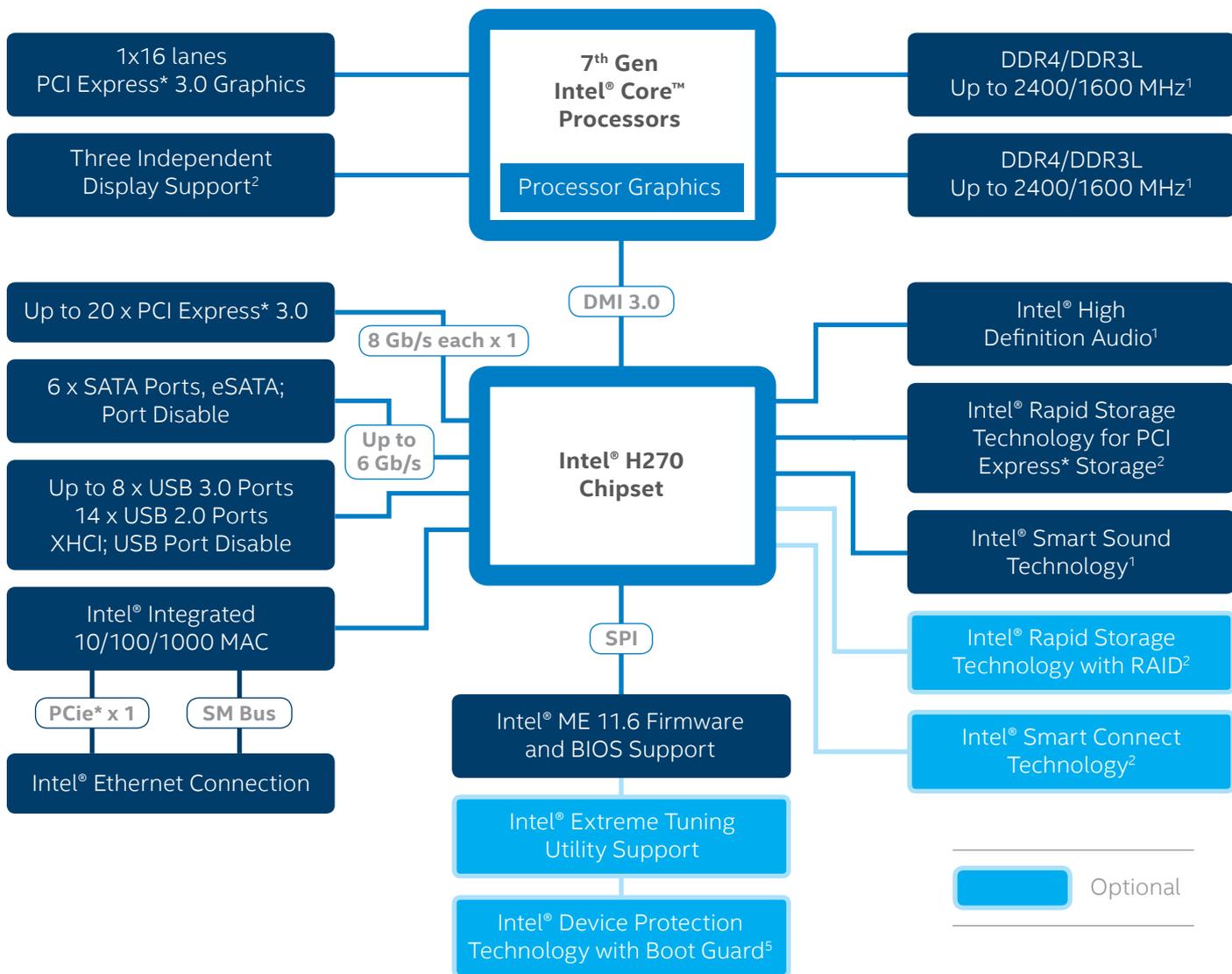
STORAGE CAPABILITIES EXPANDED

When the Intel H270 chipset is paired with 7th Gen Intel Core processors your options for storage will be unbounded. Integrated USB 3.0 makes moving files to your tablet and smartphone blazing fast. RAID support on PCI Express* and Serial ATA storage devices enables speedy app launch and allows your data backups to finish in a flash! Enable blazing fast data transfers with support for PCIe 3.0 storage devices. The Intel H270 chipset and 7th gen Intel Core processors introduce system acceleration with Intel® Optane™ memory³ to deliver amazing system responsiveness. The Intel H270 chipset gives you quicker access and expansion options for all your computing needs.

INTEL® H270 CHIPSET FEATURES AT A GLANCE

FEATURES	BENEFITS
Support for the 7 th and 6 th Gen Intel® Core™ Processors	Supports the 7 th and 6 th Gen Intel® Core™ processors with Intel® Turbo Boost Technology 2.0, ¹ Intel® Pentium® processors, and Intel® Celeron® processors.
Intel® Ready Mode Technology ¹	Provides quick access to your PC with applications that are up-to-date and constantly connected.
Intel® Rapid Storage Technology ¹	With additional hard drives added, helps provide quick access to digital photo, video, and data files, and data protection against a hard disk drive failure with RAID 0, 5, and 10. Support for external SATA (eSATA) enables the full SATA interface speed outside the chassis, up to 3 Gb/s.
Intel® Rapid Storage Technology for PCI Express* Storage ¹	Enables Intel® Rapid Storage Technology features with PCI Express*-based SSDs.
Intel® Optane™ Memory ³	Provides performance improvements as well as fast app response times for system acceleration and responsiveness.
Intel® Smart Sound Technology ¹	Integrated digital signal processor (DSP) for audio offload and audio/voice features.
Intel® High Definition Audio ¹	Integrated audio support enables premium digital surround sound and delivers advanced features such as multiple audio streams and jack re-tasking.
Universal Serial Bus 3.0	Integrated USB 3.0 support provides great enhancement in performance with a design data rate of up to 5 Gb/s.
Universal Serial Bus 2.0	High-Speed USB 2.0 support with a design data rate of up to 480 Mb/s.
Serial ATA (SATA) 6 Gb/s	High-speed storage interface supporting up to 6 Gb/s transfer rates for optimal data access.
Intel® Device Protection Technology with Boot Guard ⁵	Helps protect the system's pre-OS environment from viruses and malicious software attacks.
eSATA	SATA interface designed for use with external SATA devices. Provides a link for 3 Gb/s data speeds to eliminate bottlenecks found with current external storage solutions.
SATA Port Disable	Enables individual SATA ports to be enabled or disabled as needed. This feature helps provide added protection of data by preventing malicious removal or insertion of data through SATA ports. Especially targeted for eSATA ports.
PCI Express 3.0 Interface	Offers up to 8 GT/s for fast access to peripheral devices and networking with PCI Express 3.0 x1 ports, configurable as x2, x4, and x8 depending on desktop motherboard designs.
USB Port Disable	Enables individual USB ports to be enabled or disabled as needed. This feature helps provide added protection of data by preventing malicious removal or insertion of data through USB ports.
Intel® Integrated 10/100/1000 MAC	Support for the Intel® Ethernet Connection I219-V.
Conflict Free	"Conflict-free" refers to products, suppliers, supply chains, smelters, and refiners that, based on our due diligence, do not contain or source tantalum, tin, tungsten or gold (referred to as "conflict minerals" by the U.S. Securities and Exchange Commission) that directly or indirectly finance or benefit armed groups in the Democratic Republic of the Congo or adjoining countries.
Green Technology	Manufactured with lead-free and halogen-free ⁴ component packages.

INTEL® H270 CHIPSET BLOCK DIAGRAM



1 Intel technologies' features and benefits depend on system configuration and may require enabled hardware, software or service activation. Performance varies depending on system configuration. No computer system can be absolutely secure. Check with your system manufacturer or retailer or learn more at www.intel.com.

2 Requires the use of a 6th or 7th Gen Intel® Core™ processor. This feature is dependent on your system configuration.

3 Intel® Optane memory requires specific hardware and software configuration. Visit www.intel.com/OptaneMemory for configuration requirements.

4 Applies only to brominated and chlorinated flame retardants (BFRs/CFRs) and PVC in the final product. Intel components as well as purchased components on the finished assembly meet JS-709A requirements, and the PCB/Substrate meet IEC 61249-2-21 requirements. The replacement of halogenated flame retardants and/or PVC may not be better for the environment.

Software and workloads used in performance tests may have been optimized for performance only on Intel microprocessors. Performance tests, such as SYSmark and MobileMark, are measured using specific computer systems, components, software, operations and functions. Any change to any of those factors may cause the results to vary. You should consult other information and performance tests to assist you in fully evaluating your contemplated purchases, including the performance of that product when combined with other products.

Cost reduction scenarios described are intended as examples of how a given Intel- based product, in the specified circumstances and configurations, may affect future costs and provide cost savings. Circumstances will vary. Intel does not guarantee any costs or cost reduction.

Copyright © 2017 Intel Corporation. All rights reserved. Intel, the Intel logo, Intel Inside, the Intel Inside logo, Intel Core, Pentium, Celeron, and Intel InTru are trademarks of Intel Corporation in the U.S. and/or other countries.

* Other names and brands may be claimed as the property of others.

Printed in USA. Please Recycle.

