

# DRIVE YOUR SMALL AND MID-SIZED BUSINESS UPWARDS

THE INTEL® B250 CHIPSET AND  
7<sup>TH</sup> GEN INTEL® CORE™ PROCESSORS

**Improve your small  
and mid-sized  
business capabilities  
with the Intel®  
B250 chipset and  
7<sup>th</sup> Gen Intel® Core™  
processor.**

## REDEFINED PERFORMANCE FOR YOUR BUSINESS

The Intel B250 chipset and 7<sup>th</sup> Gen Intel Core processors will allow your small and mid-sized business the freedom to grow. Whether it is responsiveness or expandability, the Intel B250 chipset and 7<sup>th</sup> Gen Intel Core processors will provide you with Intel® Turbo Boost Technology 2.0<sup>1</sup> and Intel® Hyper-Threading Technology<sup>1</sup> to get you there. From manageability to security, the Intel B250 chipset will allow you to reach new goals.

## STRENGTHEN SOFTWARE SECURITY FROM THE INSIDE

With misused and stolen user credentials causing more than half of today's data breaches, grounding identity protection in hardware is one of the smartest ways to defend your business. New Intel B250 chipset and 7<sup>th</sup> Gen Intel Core processor-based systems with Intel® Authenticate<sup>1</sup> provide a robust multifactor solution that is protected in hardware, reducing exposure to software-level attacks such as password cracking, phishing, and screen scraping.



## ALLOW YOUR EYES TO SEE NEW COLORS

### YOUR MEDIA... ALWAYS READY TO WOW

The Intel B250 chipset and 7<sup>th</sup> Gen Intel Core processor allow you quick access to your digital life with Intel® Ready Mode Technology.<sup>1</sup> 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 B250 chipset with Intel® Smart Sound Technology.<sup>1</sup> Enhanced voice support and studio-quality sound will please even the most demanding audiophiles.

### IMPROVED VISUALS ON INTEL® PROCESSOR GRAPHICS

Supporting the transformation and growth of media into 4K, the 7<sup>th</sup> Gen Intel Core processors and the Intel B250 chipset enables premium 4K content.<sup>1</sup> For the first time ever, allow your eyes to see new colors with Wide Color Gamut.<sup>1</sup> Experience eye-popping visuals in HDR that will define the future viewing standard.<sup>1</sup> 3D movies come to life with Intel® InTru™ 3D technology.<sup>1</sup> The Intel B250 chipset also supports up to three independent displays<sup>2</sup> to get more done.

## STORAGE CAPABILITIES EXPANDED

When the Intel B250 chipset is paired with a 7<sup>th</sup> Gen Intel Core processor, your options for storage will be expanded. Integrated USB 3.0 makes moving files to your tablet and smartphone blazing fast. Enable speedy data transfers with support for PCIe 3.0 storage devices. The Intel B250 chipset and the 7<sup>th</sup> Gen Intel Core processors introduces Intel® Optane™ memory<sup>3</sup> with intelligent software which provides performance improvements as well as fast app response times for system acceleration and responsiveness.

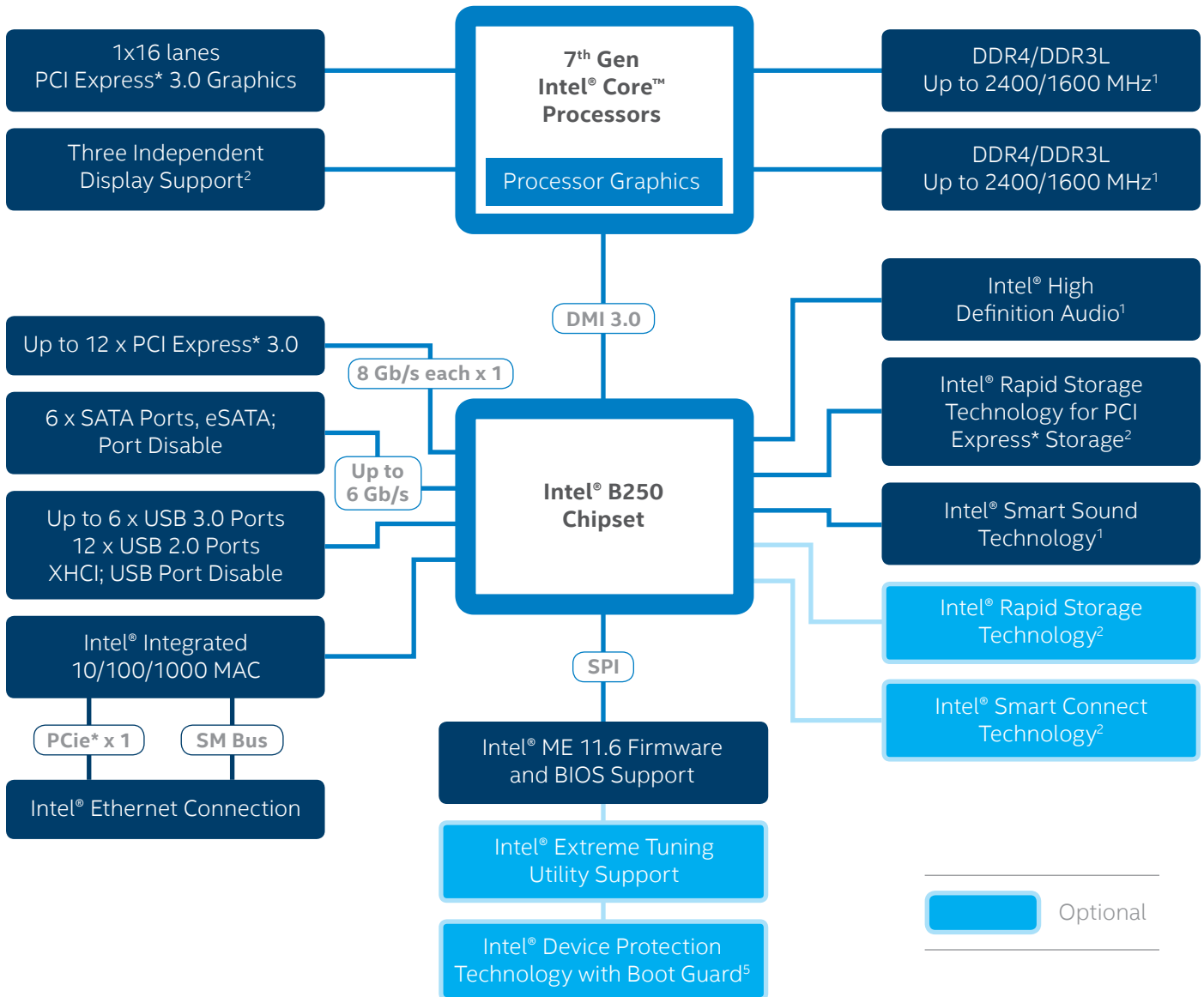
**YOUR OPTIONS  
FOR STORAGE  
WILL BE  
UNBOUNDED**



## INTEL® B250 CHIPSET FEATURES AT A GLANCE

FEATURES	BENEFITS
Support for the 7 <sup>th</sup> and 6 <sup>th</sup> Gen Intel® Core™ Processors	Supports the 7 <sup>th</sup> and 6 <sup>th</sup> Gen Intel® Core™ processors with Intel® Turbo Boost Technology 2.0, <sup>1</sup> Intel® Pentium® processors, and Intel® Celeron® processors.
Intel® Ready Mode Technology <sup>1</sup>	Provides quick access to your PC with applications that are up-to-date and constantly connected.
Intel® Rapid Storage Technology <sup>1</sup>	Provides Advanced Host Controller Interface (AHCI) support and low power management of your SATA devices.  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 <sup>1</sup>	Enables Intel® Rapid Storage Technology features with PCI Express*-based SSDs.
Intel® Optane™ Memory <sup>3</sup>	Provides performance improvements as well as fast app response times for system acceleration and responsiveness.
Intel® Smart Sound Technology <sup>1</sup>	Integrated digital signal processor (DSP) for audio offload and audio/voice features.
Intel® High Definition Audio <sup>1</sup>	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 <sup>2</sup>	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 <sup>4</sup> component packages.

# INTEL® B250 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](http://www.intel.com).

2 Requires the use of a 6<sup>th</sup> or 7<sup>th</sup> 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](http://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.

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