



# ELEVATE YOUR DESKTOP EXPERIENCE

THE INTEL® B460 CHIPSET AND 10<sup>TH</sup> GENERATION  
INTEL® CORE™ DESKTOP PROCESSORS

From mainstream gaming and creation to greater overall productivity, you'll realize a supercharged computing experience with the Intel B460 chipset and 10th Generation Intel Core processors. Get quick access to your media and fully experience the latest games and entertainment with features such as Intel® Turbo Boost Max Technology 3.0<sup>1</sup> and Intel® Hyper-Threading Technology<sup>1</sup>.



## FAST PC RESPONSIVENESS FOR BRILLIANT MEDIA ACCESS

The Intel B460 chipset and 10th Generation Intel Core processors enable support for Intel® Optane™ memory which speeds up access to your favorite programs and files.<sup>2</sup> With the fast application response times enabled by Intel Optane memory, you can quickly access your digital life. Experience immersive sound quality via Intel® High Definition Audio and enable your PC to respond to your voice commands with Intel® Smart Sound Technology.<sup>1</sup>



## OUT OF THIS WORLD NETWORK SPEEDS

### BLISTERING CONNECTIVITY

Don't get left behind when heavy game play demands the fastest connection. Add new discrete 2.5G Intel® Ethernet Connector I225 that delivers out of this world network speeds on existing cabling.

### IMMERSIVE VISUALS WITH INTEL® UHD GRAPHICS

Intel UHD 630 Graphics on 10th Generation Intel Core processors provide eye-popping 4K UHD resolutions. Experience more immersive visuals with High Dynamic Range (HDR) and Rec. 2020 (Wide Color Gamut) support. Playback your favorite videos with color precision via native true 10-bit graphics output. Watch the latest 4K UHD premium content on your PC from leading online providers.<sup>1</sup> With up to three independent, DisplayPort\* and/or HDMI\* displays supported with the Intel B460 chipset, you can enable great productivity throughout your workspace.



# EXPAND YOUR STORAGE CAPABILITIES

## HUGE STORAGE CAPABILITIES

Expand your storage capabilities with the Intel B460 chipset and 10th Generation Intel Core processors. Boost your media transfer speeds with the integrated USB 3.2 Gen 1x1 support of the Intel B460 chipset. Create fast storage volumes and back-up your media and critical information via RAID support with Intel chipset-connected PCI Express\* SSDs and SATA devices. Enable blazingly fast data transfers to your favorite devices with PCI Express\* 3.0.

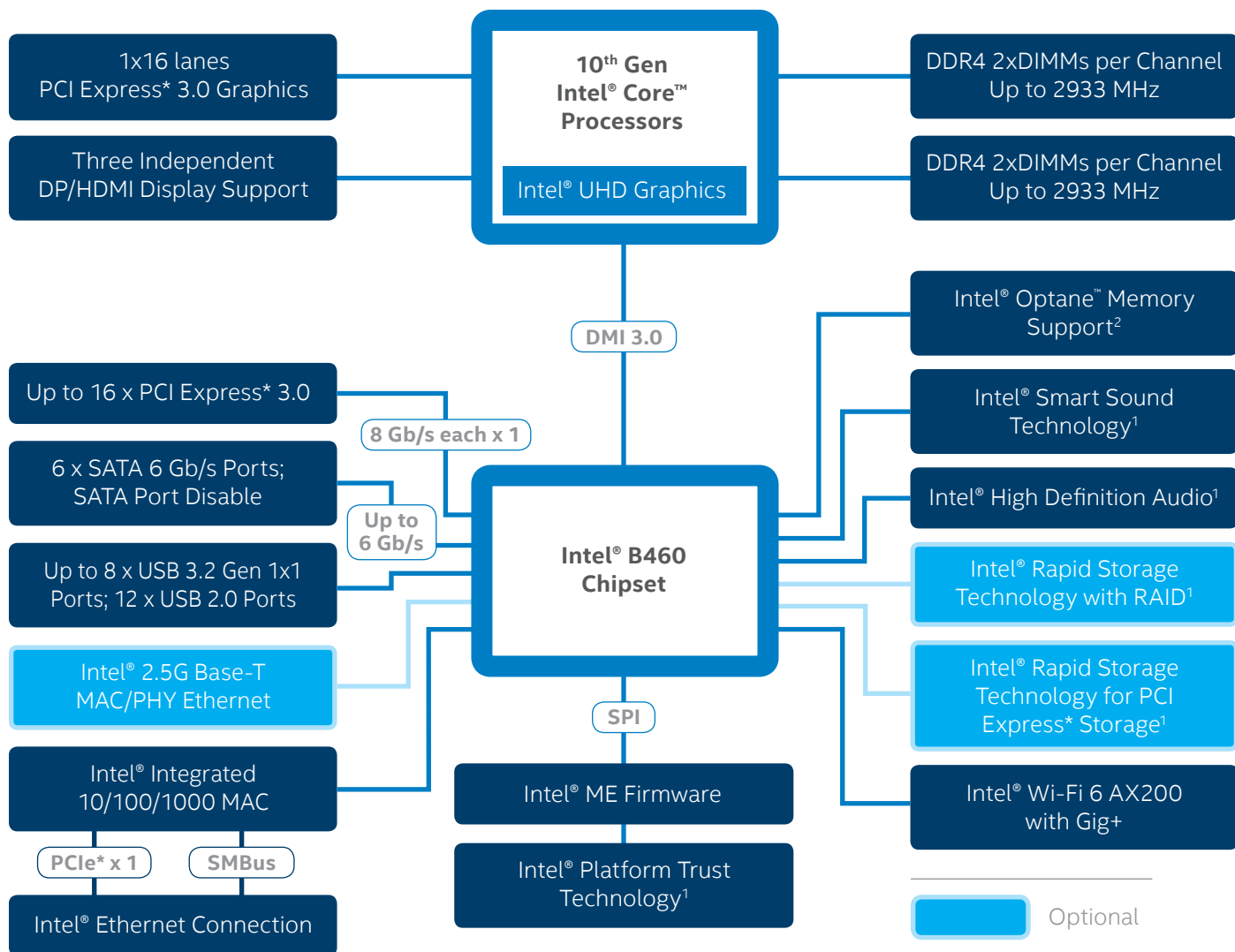




## INTEL® B460 CHIPSET FEATURES AT A GLANCE

FEATURES	BENEFITS
Support for 10th Generation Intel® Core™ desktop processors	Supports 10th Generation Intel® Core™ processors, Intel® Pentium® processors, and Intel® Celeron® processors.
Intel® Rapid Storage Technology <sup>1</sup>	With additional SSDs and 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, 1, 5, and 10. <sup>1</sup>
Intel® Rapid Storage Technology for PCI Express* Storage <sup>1</sup>	Enables boot support and management of PCI Express*-based NVMe* SSDs with Intel® Rapid Storage Technology.
Intel® Optane™ Memory Support <sup>2</sup>	Provides performance improvements as well as fast app response times for system acceleration and responsiveness when paired with an Intel Optane memory module.
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.
USB 3.2 Gen 1x1	Integrated USB 3.2 Gen 1x1 support provides data transfer performance with a design data rate of up to 5 Gb/s.
USB 2.0	USB 2.0 support with a design data rate of up to 480 Mb/s.
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.
Serial ATA (SATA) 6 Gb/s	High-speed storage interface supporting up to 6 Gb/s transfer rates for optimal data access.
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.
Intel® Platform Trust Technology <sup>1</sup>	Integrated chipset hardware and firmware solution that delivers a trusted element of the platform execution to provide enhanced security by verifying the boot portion of the boot sequence which helps protect against viruses and malicious SW attacks.
PCI Express 3.0 Interface	Offers up to 8 GT/s for fast access to peripheral devices and networking with up to 12 PCI Express 3.0 lanes, configurable as x1, x2, and x4 depending on desktop motherboard designs.
10th Generation Intel® Core™ processor PCI Express 3.0 Interface	Intel® B460 chipset-based platforms enable the processor PCI Express 3.0 lanes to be configurable as 1x16.
Intel® Integrated 10/100/1000 MAC	Support for the Intel® Ethernet Connection I219-V.

# INTEL® B460 CHIPSET BLOCK DIAGRAM



<sup>1</sup> Intel technologies may require enabled hardware, software or service activation.

<sup>2</sup> Intel® Optane memory requires specific hardware and software configuration. Visit [www.intel.com/OptaneMemory](http://www.intel.com/OptaneMemory) for configuration requirements.

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