intel®
experience
what's inside™

POWER YOUR BUSINESS WITH INTEL

THE INTEL® Q170 AND Q150 CHIPSETS AND 6TH GENERATION INTEL® CORE™ VPRO™ PROCESSORS

Maximize your business power with enhanced security and manageability with the Intel® Q170 and Q150 chipsets and the 6th generation Intel® Core™ vPro™ processors.

ENHANCED SECURITY AND MANAGEABILITY

Seize the power to manage and do more with the Intel® Q170 and Q150 chipsets and the 6th generation Intel® Core™ vPro™ processors. In addition to performance for your administrators and clients, ensure your clients have the most up-to-date software and quickly isolate attacks within your business with Intel® Active Management Technology (Intel® AMT).[1,2] IT administrators can now manage clients across multiple screens with enhanced hardware-based keyboard, video, and mouse (KVM) remote repair. Businesses can now do more with the Intel Q170 and Q150 chipsets and the 6th gen Intel Core vPro processors.

PERFORMANCE FOR YOUR BUSINESS NEEDS

The Intel Q170 and Q150 chipsets and 6th gen Intel Core vPro processors arm you with Intel® Turbo Boost Technology 2.0[3] and Intel® Hyper-Threading Technology3 to give you the edge you need, exactly when you need it. By helping your business run more smoothly, the Intel Q170 and Q150 chipsets provide you with the power and performance you need.

YOUR FAVORITE APPS ARE ALWAYS UP-TO-DATE

QUICK ACCESS TO YOUR DIGITAL LIFE

Your 6th gen Intel Core vPro processor and the Intel Q170 and Q150 chipsets allow you quick access to your digital life with Intel® Ready Mode Technology.[3] Voice command support makes your life easier, along with providing the assurance that your favorite apps are always up-to-date. The Intel Q170 and Q150 chipsets also treat your ears to amazing sound with Intel® Smart Sound Technology.[3] Studio-quality sound and enhanced voice support allow you to use your PC in ways you have never imagined.

STUNNING VISUALS WITH INTEL® PROCESSOR GRAPHICS

Enhance your computing experience with Intel® processor graphics. Systems with the 6th gen Intel Core vPro processors and the Intel Q170 and Q150 chipsets provide eye-catching built-in graphics capabilities that immerse you into new worlds. Intel® Quick Sync Video[3] can reduce transcoding times, allowing you to have quick access to your favorite movies and music. Along with the ability to drive up to three independent displays,[4] the Intel Q170 and Q150 chipsets and the 6th gen Intel Core vPro processors also allow you to use Intel® Wireless Display (Intel® WiDi)[3] to effortlessly cast your PC's screen to any Intel WiDi-enabled television.

ENRICH YOUR IT ENVIRONMENT

Intel® vPro™ Technology[1,2] allows you to remotely configure, diagnose, isolate, and repair an infected PC—even if it is turned off. In addition to helping secure the IT environment, hardware-based KVM Remote Control[1,2] enables you to address issues remotely by seeing what your clients see. The Intel® Q170 and Q150 chipsets and 6th gen Intel® Core™ vPro™ processors provide you with a smarter business.

INTEL® STABLE IMAGE PLATFORM PROGRAM

Lowering the total cost of ownership by reducing the variety of supported hardware and software greatly simplifies enterprise PC management. The Intel® Stable Image Platform Program (Intel® SIPP) and the Intel Q170 and Q150 chipsets help you identify and deploy standardized, stable image PC platforms for at least 15 months.

ADVANCED STORAGE CAPABILITIES

When the Intel Q170 and Q150 chipsets are paired with 6th gen Intel Core vPro processors, your storage capabilities are expanded as far as your imagination. Integrated USB 3.0 makes moving files to your tablet and cellphone blazing fast. RAID support[2] on PCI Express* and Serial ATA storage devices enables speedy app launch and allows your data backups to finish in a flash! Enable eye-popping data transfers with support for PCI Express 3.0 storage devices. By pairing a small flash memory device with a large HDD volume, you can enable SSD-like performance with Intel® Smart Response Technology.[3] Dynamic Storage Accelerator unleashes the performance of your SSDs. It maximizes storage I/O performance by dynamically adjusting system power management policies to deliver up to a 15 percent[5] performance boost compared to default power management. The Intel Q170 and Q150 chipsets give you quick access and expansion options for all your computing needs.

QUICKER ACCESS AND EXPANSION

INTEL® Q170 AND Q150 CHIPSETS FEATURES AT A GLANCE

FEATURES	BENEFITS
Support for the 6th gen Intel® Core™ processors	Supports the 6th gen Intel® Core™ vPro™ processors with Intel® Turbo Boost Technology 2.0,[3] Intel® Pentium® processors, and Intel® Celeron® processors
Intel® Active Management Technology (Intel® AMT)[1]	Using built-in platform capabilities and popular third-party management and security applications, Intel® AMT allows IT to better discover, heal, and protect networks
Intel® Ready Mode Technology[2]	Provides quick access to your PC with applications that are up-to-date and constantly connected
Intel® Rapid Storage Technology[2]	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[2,7]	Enables Intel® Rapid Storage Technology features with PCI Express*-based SSDs
Intel® Smart Sound Technology[2]	Integrated digital signal processor (DSP) for audio offload and audio/voice features
Intel® High Definition Audio[2]	Integrated audio support enables premium digital surround sound and delivers advanced features such as multiple audio streams and jack re-tasking
Intel® Smart Response Technology[2]	Implements storage I/O caching for fast response times of application startup and quick access to user data
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 with up to six USB 3.0 ports
Universal Serial Bus 2.0	High-Speed USB 2.0 support with a design data rate of up to 480 Mb/s with up to 14 USB 2.0 ports
Serial ATA (SATA) 6 Gb/s	Next-generation high-speed storage interface supporting up to 6 Gb/s transfer rates for optimal data access with up to six SATA ports
Serial ATA (SATA) 3 Gb/s	Helps protect the system's pre-OS environment from viruses and malicious software attacks
Intel® Device Protection Technology with Boot Guard[1]	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
eSATA	Enables individual SATA ports to be enabled or disabled as needed, helping to provide added protection of data by preventing malicious removal or insertion of data through SATA ports
SATA Port Disable	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 up to eight PCI Express 3.0 x1 ports, configurable as x1, x2, and x4 depending on desktop motherboard designs
6th gen Intel® Core™ processors, PCI Express 3.0 Interface	Intel® Q170-based platforms enable the processor PCI Express 3.0 port to be configurable as a 1x16, 2x8, or 1x8 and 2x4, which enables support for Intel® Thunderbolt™ Technology3 depending on desktop motherboard designs
USB Port Disable	Enables individual USB ports to be enabled or disabled as needed, helping to 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
Green Technology	Manufactured with lead-free and halogen-free[7] component packages

FAST ACCESS TO PERIPHERAL DEVICES

For more information, visit http://www.intel.com/content/www/us/en/chipsets/business-chipsets/q170-q150-chipset-brief.html

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 This feature is only available on the Intel® Q170 chipset. Check with your system manufacturer or retailer or learn more at www.intel.com.

3 Intel technologies' features and benefits depend on system configuration and may require enabled hardware, software or service activation. Performance varies depending on system configuration. Check with your system manufacturer or retailer or learn more at www.intel.com.

4 Requires the use of a 6th generation Intel® Core™ processor. This feature is dependent on your system configuration.

5 Dynamic Storage Accelerator performance is dependent upon several factors including workload, storage configuration, operating system, and CPU C-state transition efficiency. Intel analysis has found that Dynamic Storage Accelerator performance mode, 2 SSD RAID 0 provides up to a 15 percent performance gain as compared to default power management. Test configuration: 3 GHz processor, 2 x 2 GB @ 1333 MHz RST 12.0.0.1075OS HDD: Western Digital Black WD2002FAEX 2 TB; Intel® SSD 320 Series; OS Tested: RAID 0, Two Disk; Windows* 7 SP1 build 7601; Benchmark software: PCMark* Vantage 1.0.2 patch 1901

6 DDR3L memory supported at 1.35V only.

7 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.

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