



A Visibly Smarter Way to Power Your Business

Intel® Q67 Express Chipset and 2nd Generation Intel® Core™ vPro™ Processors

Business PCs powered by the Intel® Q67 Express chipset and 2nd generation Intel® Core™ vPro™ processor family deliver performance you can see—in maximized hardware-assisted security, in easier PC management, and in greater user responsiveness and adaptability.¹



The Intel Q67 Express Chipset

The Intel Q67 Express chipset delivers quality, performance, and industry-leading I/O technologies. When combined with 2nd Generation Intel Core vPro processors, Intel Q67 Express chipset-based PC platforms deliver improved manageability, security and hardware-based Keyboard, Video and Mouse (KVM) remote repair.²

Smart Performance

With the 2nd generation Intel Core vPro processor family, users will benefit from Intel® Turbo Boost Technology 2.0.³ This feature automatically adapts performance to meet the processing needs of whatever the user is doing. Additional PC performance is provided by 4-way (or 8-way) multi-task processing that enables users to move between business applications quickly and seamlessly.⁴

Built to be IT Intelligent

The combination of the Intel Q67 Express chipset and 2nd generation Intel Core vPro processor family makes PC security smarter than ever. Intelligent, hardware-assisted security management features help you quickly deploy security patches across PCs faster and assist in preventing others from disabling installed security software.^{1,5}

Not only can data encryption run up to four times faster due to Intel® Advanced Encryption Standard-New Instructions⁶ (Intel® AES-NI), but you can remotely unlock encrypted drives that require pre-boot authentication and manage data security settings, even when the PC is off.⁵ You can also help protect your organization's sensitive data with optional Intel® Anti-Theft Technology.⁷ When enabled, your Intel Core vPro processor-based PCs can be automatically disabled if they're lost or stolen. Once recovered, they can be reactivated to full functionality.²

Remote management capabilities make PC upkeep easier and more cost effective, enabling you to keep your PCs running smoothly, without taking them out of the hands of users.¹ Once activated, Intel vPro Technology allows you to remotely configure, diagnose, isolate, and repair an infected PC—even if it's unresponsive.⁵

Hardware-based KVM Remote Control (keyboard, video, mouse) lets you fix more issues remotely by seeing what your users see and with greater resolution than ever before.² To reach you, users can even "call for help" through a wired or wireless protected tunnel to request assistance in managing or repairing their PC.⁵

Built-In PC Visuals Maximized

With smart performance and built-in 3D visual and graphics support, the 2nd generation Intel Core vPro processor family will add a new dimension to your PC experience. Intel® Quick Sync Video, our built-in hardware acceleration in all 2nd generation Intel Core processors, delivers astonishing video transcoding performance, enabling your PC to edit, burn, and share your content faster—without the need for add-in hardware. In addition, Intel® InTru™ 3D delivers 3D movie playback without hesitation or interruption.

Intel® Stable Image Platform Program

Reducing the variety of supported hardware platforms greatly simplifies enterprise PC management, which in turn

lowers total cost of ownership. One critical element in reducing PC hardware variation involves deploying standardized PC configurations. The Intel® Stable Image Platform Program® (Intel® SIPP) can help your company identify and deploy standardized, stable image PC platforms for at least 15 months. The Intel Q67 Express chipset supports Intel SIPP.

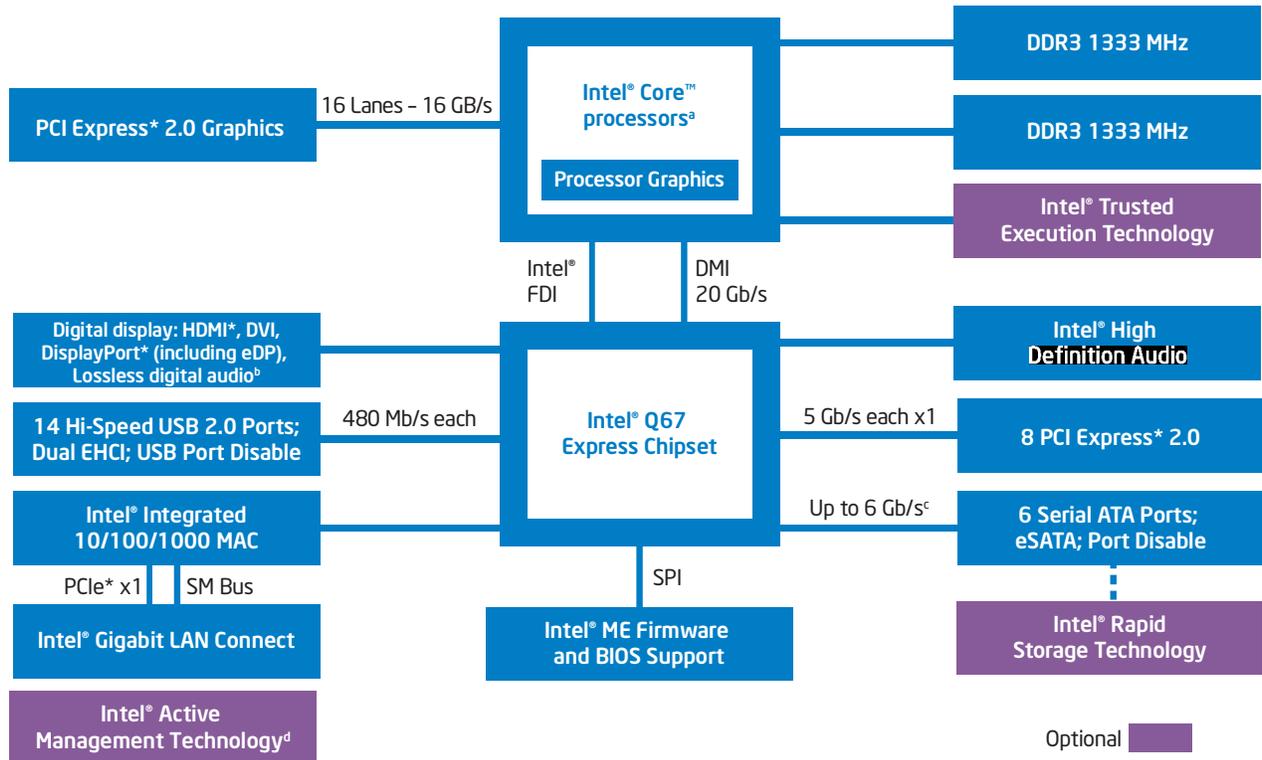
The Intel Q67 Express chipset delivers the latest platform features for superb system performance

Platforms based on the Intel Q67 Express chipset and 2nd generation Intel Core processors deliver the must-have capabilities for mainstream performance. The Intel Q67 Express chipset integrates several capabili-

ties to provide flexibility for connecting I/O devices. The latest Intel® Rapid Storage Technology⁹ 10.0 enables the full Serial ATA (SATA) interface speed of up to 6 Gb/s to support next-generation Intel® Solid State Drives (SSDs) and traditional Hard Disk Drives (HDDs). In addition, the Intel Q67 Express chipset drives lower power through enhanced link power management of the Advanced Host Controller Interface (AHCI), enables easier expandability with support for native hot plug, and boosts boot and multitasking performance with Native Command Queuing (NCQ).

Intel Rapid Recover Technology (part of the Intel Rapid Storage Technology suite) provides a fast, easy-to-use method for the end user to recover their data and return their system to an operational status.

Intel® Q67 Express Chipset Block Diagram



^a2nd generation Intel® Core™ processor family.
^bAvailable with Intel processor graphics only.
^cAll SATA ports capable of 3 GB/s. 2 ports capable of 6 GB/s.
^dRequires 2nd generation Intel® Core™ vPro processor.

Intel® Q67 Express Chipset Features at a Glance

Features	Benefits
Support for 2nd Generation Intel® Core™ processors	<ul style="list-style-type: none"> Supports the 2nd Generation Intel® Core™ processors with Intel® Turbo Boost Technology³ 2.0, Intel® Pentium® processor, and Intel® Celeron® processor.
Intel® Active Management Technology ⁵ (Intel® AMT)	<ul style="list-style-type: none"> Using built-in platform capabilities and popular third-party management and security applications, Intel AMT allows IT to better discover, heal, and protect networked computing assets.
Support for HDMI, DisplayPort, eDP and DVI 2	<ul style="list-style-type: none"> High Definition Multimedia Interface (HDMI) delivers uncompressed HD video and uncompressed multi-channel audio in a single cable, supporting all HD formats including 720p, 1080i and 1080p. Dual Independent Display expands the viewable workspace to two monitors.
Intel® Rapid Storage Technology ⁹ 10.0	<ul style="list-style-type: none"> With additional hard drives added, provides quicker access to digital photo, video and data files with RAID 0, 5, and 10, and greater data protection against a hard disk drive failure with RAID 1, 5, and 10. Support for external SATA (eSATA) enables the full SATA interface speed outside the chassis, up to 3 Gb/s.
Intel® Rapid Recover Technology	<ul style="list-style-type: none"> Intel's latest data protection technology provides a recovery point that can be used to quickly recover a system should a hard drive fail or if there is data corruption. The clone can also be mounted as a read-only volume to allow a user to recover individual files.
Intel® High Definition Audio ¹⁰	<ul style="list-style-type: none"> Integrated audio support enables premium digital surround sound and delivers advanced features such as multiple audio streams and jack re-tasking.
Universal Serial Bus (USB)	<ul style="list-style-type: none"> Hi-Speed USB 2.0, provides greater enhancement in performance with a design data rate of up to 480 megabits per second (Mbps) with up to 14 USB 2.0 ports.
USB 2.0 Rate Matching Hub	<ul style="list-style-type: none"> Enables lower power requirements and manages the transition of the communication data rate from the high speed of the host controller to the lower speed of USB full-speed/low-speed devices.
Serial ATA (SATA) 6 Gb/s	<ul style="list-style-type: none"> Next-generation high-speed storage interface supporting up to 6 Gb/s transfer rates for optimal data access with up to 2 SATA ports.
Serial ATA (SATA) 3 Gb/s	<ul style="list-style-type: none"> High-speed storage interface supporting up to 4 SATA ports.
eSATA	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Enables individual SATA ports to be enabled or disabled as needed. This feature provides added protection of data by preventing malicious removal or insertion of data through SATA ports. Especially targeted for eSATA ports.
PCI Express 2.0* Interface	<ul style="list-style-type: none"> Offers up to 5 GT/s for fast access to peripheral devices and networking with up to 8 PCI Express 2.0 x1 ports, configurable as x2 and x4 depending on motherboard designs.
USB Port Disable	<ul style="list-style-type: none"> Enables individual USB ports to be enabled or disabled as needed. This feature provides added protection of data by preventing malicious removal or insertion of data through USB ports.
Intel® Integrated 10/100/1000 MAC	<ul style="list-style-type: none"> Support for the Intel® 82578DC Gigabit Network Connection.
Green Technology	<ul style="list-style-type: none"> Manufactured with lead-free and halogen-free component packages.

For more information, visit the Intel Web site: www.intel.com/products/desktop/chipsets

¹ Intel® vPro™ Technology is sophisticated and requires setup and activation. Availability of features and results will depend upon the setup and configuration of your hardware, software, and IT environment. To learn more visit: <http://www.intel.com/technology/vpro/>.

² KVM Remote Control (Keyboard, Video, Mouse) is only available with Intel® Core™ i5 vPro™ and Core™ i7 vPro™ processors with Intel® Active Management technology activated and configured and with processor graphics active. Discrete graphics are not supported.

³ Requires a system with Intel® Turbo Boost Technology capability. Intel Turbo Boost Technology 2.0 is the next generation of Turbo Boost Technology and is only available on 2nd gen Intel® Core™ processors. Consult your PC manufacturer. Performance varies depending on hardware, software, and system configuration. For more information, visit <http://www.intel.com/technology/turboboost>.

⁴ Requires an Intel® Hyper-Threading Technology-enabled system; consult with your PC manufacturer. Performance will vary depending on the specific hardware and software used. Not available on all Intel® Core™ processors. For more information including details on which processors support Intel HT Technology, visit <http://www.intel.com/info/hyperthreading>.

⁵ Requires activation and a system with a corporate network connection, an Intel® AMT-enabled chipset, network hardware, and software. For notebooks, Intel AMT may be unavailable or limited over a host OS-based VPN, when connecting wirelessly, on battery power, sleeping, hibernating, or powered off. Results dependent upon hardware, setup, and configuration. For more information, visit <http://www.intel.com/technology/platform-technology/intel-amt>.

⁶ Intel® AES-NI requires a computer system with an AES-NI-enabled processor, as well as non-Intel software to execute the instructions in the correct sequence. AES-NI is available on select Intel® Core™ processors. For availability, consult your system manufacturer. For more information, see <http://software.intel.com/en-us/articles/intel-advanced-encryption-standard-instructions-aes-ni/>.

⁷ No system can provide absolute security under all conditions. Requires an enabled chipset, BIOS, firmware and software, and a subscription with a capable service provider. Consult your system manufacturer and service provider for availability and functionality. Intel assumes no liability for lost or stolen data and/or systems or any other damages resulting thereof. For more information, visit <http://www.intel.com/go/anti-theft>.

⁸ Consult your PC manufacturer for availability of systems that meet Intel SIPP guidelines. Intel SIPP is a client program only and does not apply to servers or Intel-based handhelds and/or handsets. For more information, visit <http://www.intel.com/itcenter/topics/refresh/sipp.htm>.

⁹ Intel® Rapid Storage Technology requires the computer have an Intel RST-enabled Intel chipset, RAID controller in the BIOS enabled and the Intel Rapid Storage Technology software driver installed. Please consult your system vendor for more information.

¹⁰ Intel® High Definition Audio requires a system with an appropriate Intel chipset and a motherboard with an appropriate codec and the necessary drivers installed. System sound quality will vary depending on actual implementation, controller, codec, drivers and speakers. For more information about Intel® HD audio, refer to <http://www.intel.com/>

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