The 3rd Generation Intel® Core processor unleashes amazing performance, brilliant visuals, and increased efficiency. An Ultrabook™ blends the most desired features and capabilities of a PC and a tablet to deliver stunning responsiveness, sleek form factor, stylish designs, and quick web connectivity resulting in a fresh and incredible computing experience. With new and improved media capabilities, you can convert videos at blazing speeds or enjoy mainstream gaming with amazing performance from built in Intel® HD Graphics 4000. You can also enjoy more performance while using less power with Intel’s latest 22nm Tri-gate transistor technology.

**Featured Technologies**

The 3rd gen Intel Core processor family features Intel® Turbo Boost Technology2.01 delivering a burst of processor speed automatically when the workload demands additional performance. Intel® Hyper-Threading Technology1 provides further performance benefits and adaptability by allowing each processor core to work on two tasks at the same time, improving multitasking and speeding up the workflow. So whether you use your PC to be creative, play games, or for everyday tasks such as homework, the new 3rd Generation Intel® Core™ processors offer the performance and features you want to get more done in less time.

**Visualize**

Built-In Visuals2 are featured on the 3rd Generation Intel® Core™ processors and include a suite of new and enhanced technologies that provide a stunning and incredibly smooth and seamless visual experience. See HD video the way it’s meant to be seen - sharper, smoother, and richer. Intel® HD Graphics 4000, integrated into the 3rd Generation Intel® Core™ processors, provides brilliant images and colors and eliminates the need for a discrete graphics card, reducing both power consumption and cost.

**Responsiveness**

With the 3rd Generation Intel Core processor family you can stay always connected with Intel® Smart Connect Technology, providing the latest network data even while sleeping. Get SSD like performance without the cost using Intel® Smart Response Technology. Experience near instant resume and prolonged battery life with Intel® Rapid Start Technology.

**Energy Efficiency**

The 3rd gen Intel® Core™ processors utilize an advanced 22nm process technology for improved power consumption and efficiency. Ultra processors provide a low 17W TDP and a further reduction in power consumption.
Select the 3rd Generation Intel Core Processor to Fit Your Lifestyle


Intel® Core™ i3 Processor—A Visibly Smart Start. The visibly smart Intel Core i3 processor provides amazing dual-core performance and stunning visuals.

<table>
<thead>
<tr>
<th>Features</th>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intel Turbo Boost Technology 2.0</td>
<td>Dynamically increases the processor's frequency as needed by taking advantage of thermal and power headroom to give you a burst of speed when you need it.</td>
</tr>
<tr>
<td>Intel Hyper-Threading Technology</td>
<td>Delivers two processing threads per physical core. Highly threaded applications can get more work done in parallel, completing tasks sooner.</td>
</tr>
<tr>
<td>Integrated Memory Controller</td>
<td>An integrated memory controller offers stunning memory read/write performance through efficient prefetching algorithms, lower latency, and higher memory bandwidth</td>
</tr>
<tr>
<td>Built-In Visuals</td>
<td>Intel® Quick Sync Video—Delivers fast conversion of video for portable media players, online sharing, and video editing and authoring. Intel® Clear Video HD—Visual quality and color fidelity enhancements for HD playback for a sharper, smoother, and richer picture. Intel® InTRU™ 3D6—Stereoscopic 3-D Blu-ray® playback in full 1080p resolution over HDMI® 1.4 and premium audio. Intel® HD Graphics—Enhanced 3-D performance for immersive mainstream and casual gaming. Intel® Advanced Vector Extensions—A set of new instructions to improve software performance for floating point-intensive applications such as audio processing, audio codecs, and image and video editing applications.</td>
</tr>
<tr>
<td>Intel Smart Cache</td>
<td>The shared cache is dynamically allocated to each processor core, based on workload. This significantly reduces latency, improving performance.</td>
</tr>
<tr>
<td>Advanced Encryption Standard New Instructions</td>
<td>New AES instructions add hardware acceleration to AES algorithms and speeds up the execution of AES applications.</td>
</tr>
<tr>
<td>Intel® Virtualization Technology</td>
<td>Allows one hardware platform to function as multiple &quot;virtual&quot; platforms. Offers improved manageability by limiting downtime and maintaining productivity by isolating computing activities into separate partitions.</td>
</tr>
</tbody>
</table>
For more information on the 3rd generation Intel® Core™ processor family, visit the Intel Web site: www.intel.com

1 Intel® Turbo Boost Technology, Intel® Hyper-Threading Technology, and Intel® Virtualization Technology require a computer system with a processor, chipset, BIOS, enabling software and/or operating system, device drivers, and applications designed for these features. Performance will vary depending on your configuration. Contact your vendor for more information.

2 Warning: Altering clock frequency and/or voltage may (i) reduce system stability and useful life of the system and processor; (ii) cause the processor and other system components to fail; (iii) cause reductions in system performance; (iv) cause additional heat or other damage; and (v) affect system data integrity. Intel has not tested, and does not warranty, the operation of the processor beyond its specifications.

3 ENERGY STAR® denotes a system level energy specification, defined by the U.S. Environmental Protection Agency, that relies upon all of the system's components, including processor, chipset, power supply, HDD, graphics controller, and memory to meet the specification. For more information, visit www.energystar.gov.

4 Intel® Core™ i7 and Intel® Core™ i5 processors designated by “K” in the processor number are unlocked for performance tuning and support Intel® HD Graphics 4000.

5 Intel® H61 Express Chipset based boards must be reconfigured by the motherboard manufacturer with Manageability Engine-ME firmware, BIOS and drivers to enable support for the Intel® 3rd generation processor family. Contact your motherboard manufacturer for more information.

6 Viewing stereo 3-D content requires 3-D glasses and a 3-D capable display. Physical risk factors may be present when viewing 3-D material.

7 The acoustic benefits of the 4-pin header are reliant on a properly designed motherboard. Contact your board manufacturer for compatibility.

Intel, the Intel logo, Intel Core, Core Inside, and Intel InTRU are trademarks of Intel Corporation in the U.S. and other countries.

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

Copyright © 2012 Intel Corporation. All rights reserved. 1210JWEMS/PDF Please