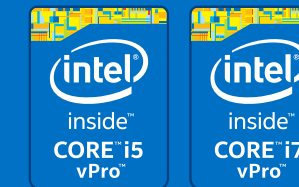# Refresh with Touch

Touch-based Solutions from Intel
Featuring the Lenovo ThinkPad Yoga*

Consumerization has influenced business IT, and this means a big opportunity to boost productivity, mobility, collaboration, and content creation. Discover how touch-enabled, Intel-based devices like the Lenovo ThinkPad Yoga* transform the way you work with Desktop programs, Office 365* and Windows* 8.1

## All-in-One

2x faster multitasking, 2x faster apps [1]
*vs. four-year-old PC*

Power a more seamless workflow with a touch-enabled desktop PC. Sleek new designs create an inviting workspace, and touchscreens enable quicker information access to enhance your productivity.

**REAL WORLD USE CASES:**

- Big data analysis
- Design and sketching
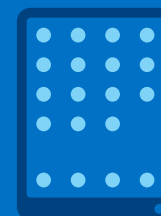- C-suite dashboards and business intelligence

## Ultrabook™

4x faster multitasking, 2x faster apps [1]
*vs. four-year-old PC*

Reduce physical obstacles to collaboration with a touch-enabled Ultrabook™. Share ideas by touching images on the screen rather than interrupting the workflow to use the mouse or keyboard.

**REAL WORLD USE CASES:**

- Customer relationship management (CRM)
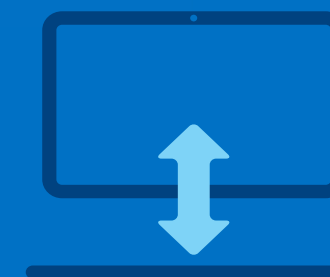- Workforce management
- IT troubleshooting

## Intel-based Tablet

Battery life up to 10 hours [2]
*vs. non-IA devices*

Safeguard data, user identities, and privacy[3]; go anywhere with extraordinary battery life; and rely on the only tablets able to multitask, use a mouse and keyboard, or run Desktop programs.

**REAL WORLD USE CASES:**

- Healthcare
- Retail
- Mobile point of sale

## Intel-based 2 in 1

Save $1,000 over three years [4]
*vs. non-IA two-system model*

Benefit from low total cost of ownership (TCO) and free your imagination with the highly adaptable, touch-enabled 2 in 1. Use a stylus to take notes in meetings and collaborate on modern apps.

**REAL WORLD USE CASES:**

- C-suite dashboards and business intelligence
- Sales and marketing presentations
- Meetings: Note-taking and drawing

Refresh with touch-enabled Intel-based devices and the Lenovo ThinkPad Yoga*.
Find the perfect touch device at: **intel.com/buy/us/en**

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. For more information go to http://www.intel.com/performance

1. Desktop and Ultrabook™ claims based on lowest performance data number when comparing desktop and Ultrabook benchmarks. Configurations and performance tests as follows:

(Ultrabook 4YR) Comparing pre-production 4th generation Intel® Core™ i5-4200U Processor (4T2C, 3 MB cache, up to 2.60 GHz), On OEM platform BIOS: OEM graphics: Intel® HD Graphics (driver v. 9.18.10.3071) Resolution 1920x1200 Memory: 4 GB (2x2 GB) dual channel 1600 11-11-11-28 SDD: Liteonit* LMT-128M6M 128 GB OS: Windows* 8 6.2 Build 9200 System Power Management Policy: Balance Wireless: On and connected Intel® Core™2 Duo processor P8600 (2.40 GHz, 2T/2C, 3 M Cache, 1066 MHz FSB), On OEM platform BIOS: OEM graphics: Intel® GMA X4500HD (driver v. 8.15.10.2555) Resolution 1366x768 Memory: 4 GB (2x2 GB) Micron* DDR3 1066 7-7-7-20 HDD: Intel® Hitachi* HTS543232L9A300 320GB 5400 rpm 16 MB cache OS: Windows 7 Ultimate 6.1 Build 7601 System Power Management Policy: Windows Default LCD Size: 15.5"

(AIO 4YR) Comparing pre-production 4th generation 4th gen: Intel® Core™ i5-4570S processor (up to 3.60 GHz, 4T/4C, 6M Cache) On Intel® motherboard model #DZ87KL-75K, BIOS: BLH6710H.86A.0313.0402.2053 (INF Intel® 9.4.0.1017), Memory: Micron* DDR3 8 GB (2x4 GB) 1600 MHZ, HDD: Seagate* ST31000528AS 1TB 7200 rpm, OS: Windows 8 RTM build 9200, graphics: Intel® HD Graphics 4600 driver: 9.18.10.3071, old PC: Intel® Core™2 Duo E8400 processor (3.0 GHz, 2C, 6 M Cache) On Intel® motherboard model #DG45ID, BIOS: IDG4510H.86A.0135.2011.0255.1107 9INF Intel® 9.4.0.1017), Memory: Kingston* DDR2 4 GB (2x2 GB) 800 MHz, HDD: Seagate* ST31000528AS 1TB 7200 rpm, OS: Windows 7 SP1 RTM Build 7600, Graphics: Intel® G45 Driver: 8.15.10.2189

2. Claims are based on an internal Intel® Reference design tablet and OEM pre-production system which are not available for purchase. Consult your system manufacturer for more details and product launches. Battery life is measured using a 1080p 10Mbps h.264 Elephants Dream video. Configuration: Intel® Atom™ Processor Z3740 (up to 1.86 GHz, 4T4C, Silvermont, 2 MB L2 Cache), OEM pre-production system, 10" screen with 1366x768 resolution, Intel Gen 7 HD Graphics, pre-production graphics driver, 2GB (2x1GB) LPDDR3-1067, 64GB eMMC solid state storage, 31 Whr battery, pre-release Windows update. In the device settings, disable all radios except Wi-Fi. Disable Intel® Display Power Saving Technology (DPST), set up the system to ~200 nits screen brightness using a full screen white background, and re-enable Intel® DPST. Turn OFF the adaptive brightness setting under Power Options in Control Panel. Set "Dim the display" to "never" on both battery and AC. Set "Put the computer to sleep" to "never" on both battery and AC. Wait 15 minutes after boot. Launch the default updated Windows* 8 Style UI video player, start the workload video in a loop, and disconnect the AC plug to start the test. Measure the time until battery is exhausted.

3. No computer system can provide absolute security under all conditions. Built-in security features available on select Intel® processors may require additional software, hardware, services, and/or an Internet connection. Results may vary depending upon configuration. Consult your PC manufacturer for more details.

4. "Total Cost of Ownership: Save with a Lenovo ThinkPad Yoga*." Principled Technologies, 2014. http://bit.ly/1tmWX2N

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