

# NEW 8<sup>TH</sup> GEN INTEL® CORE™ PROCESSORS

POWERING THE ULTIMATE MOBILE PC EXPERIENCE FOR YOUR CUSTOMERS



## EXPERIENCE

## 5+ YEAR OLD PCs

## NEW MOBILE PCs WITH 8<sup>TH</sup> GEN INTEL® CORE™

### PRODUCTIVITY



- » Baseline productivity performance
- » Baseline graphics performance
- » Baseline battery life

- » Up to **2X better** productivity<sup>1</sup>
- Up to **2.8X better** 3D graphics<sup>2</sup>
- Up to **10 hours** of battery life<sup>3</sup>

### MEDIA



- » Baseline media capability
- » Basic graphics functionality
- » No support for 4K Ultra HD graphics

- » Sharper, crisper, clearer images, and video with **Ultra HD graphics**
- » Hardware support for smooth **4K editing and playback**

### SECURITY



- » Limited security
- » Software level security
- » Single factor authentication
- » Login through password only

- » Secure payments with **fingerprint touch to pay**
- » **Hardened password managers** for sensitive authentication data
- » Simple built-in **two-factor authentication**
- » **Natural and intuitive interactions** with Touch, Stylus, and Voice

### RESPONSIVE



- » Restricted responsive experiences
- » Limited multitasking capability
- » No 'instant on' experience

- » Performance improvement and **Quad Core scaling**
- » Improved performance and responsiveness with Windows 10\*
- » Fast switching between apps with **Intel® Speed Shift Technology**
- » 'Instant on' experience with **Modern Standby\***

### CONNECTIVITY



- » Legacy connectivity features
- » Low speed connectivity

- » **Thunderbolt™ 3** - The USB-C that does it all! At 40Gbps of throughput, it's 8X faster than USB 3.0 and 4X more video bandwidth than HDMI 1.4
- » Dual 4K video, PC/device, charging, external graphics support

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 complete information visit [www.intel.com/benchmarks](http://www.intel.com/benchmarks).

No computer system can provide absolute security under all conditions. Built-in security features available on select Intel® Core™ 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. For more information visit [www.intel.com/technology/security](http://www.intel.com/technology/security). Check with your system manufacturer or retailer to learn more at [intel.com](http://intel.com).

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 to learn more at [intel.com](http://intel.com).

1. As measured by SYSmark® 2014 SE (Second Edition) on Intel Reference Platform - Intel® Core™ i5-8250U Processor, PL1=15W TDP, 4C8T, Turbo up to 3.4GHz, Memory: 8GB DDR4-2400, Storage: Intel® SSD 600p, Intel® UHD Graphics 620, OS: Windows® 10 versus 5 year old: Intel® Core™ i5-3317U Processor, PL1=15W TDP, 2C4T, Turbo up to 3.6GHz, on Dell® XPS 12, Memory: 8GB DDR3, Storage: SSD, Intel® HD Graphics 4000, OS: Windows® 10

2. As measured by Futuremark® 3DMark® Sky Diver Graphics Score. Measured on Intel Reference Platform - Intel® Core™ i5-8250U Processor, PL1=15W TDP, 4C8T, Turbo up to 3.4GHz, Memory: 8GB DDR4-2400, Storage: Intel® SSD 600p, Intel® UHD Graphics 620, OS: Windows® 10 versus 5 year old: Intel® Core™ i5-3317U Processor, PL1=15W TDP, 2C4T, Turbo up to 3.6GHz, on Dell® XPS 12, Memory: 8GB DDR3, Storage: SSD, Intel® HD Graphics 4000, OS: Windows® 10

3. As projected on Intel Reference Platform using a 70Whr Battery and 4K Panel on Windows 10® 4K 24fps 10bit HEVC Local Video Playback - Intel® Core™ i7-8550U Processor, PL1=15W TDP, 4C8T, Turbo up to 4.0GHz, Memory: 8GB DDR4-2400, Storage: Intel® SSD 600p, Intel® UHD Graphics 620, OS: Windows® 10, Battery Size: 70Whr, Screen: 4K, Windows 10 Power Slider - Better Performance

Battery life and performance measurements on Intel Reference Platform. Intel Reference Platform is an example new system. Products available from systems manufacturers will not be identical in design, and performance will vary.

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