

Always-Connected PCs with Powerful Intel Performance

Be More Productive, More Creative, More Connected from Anywhere

Jan. 11, 2018 — In an increasingly connected, mobile world, it's an expectation that our PCs should be always-connected and always-on. We want them to be instantaneously ready and have performance powerful enough to help us create, work, have fun, connect with others and express ourselves. These always-connected PCs are thin and light powerhouses designed to meet the needs of those who require full PC experiences and instant accessibility from anywhere thanks to world-class connectivity and long battery life.

We know roughly 38 percent of people take their mobile PCs with them outside the home at least a few times a year, and 30 percent at least once a week.¹ To meet these people's needs, Intel has been working with our partners to innovate PCs for today's generation and beyond. The company has been powering these always-connected PCs since their inception in 2005. Today, there are more than 30 business- and consumer-oriented Intel-powered PCs with Intel LTE connectivity available, offering leading performance and long battery life in a variety of price points and thin and light designs.

Intel Raises the Bar on Always-Connected PCs

Powerful Intel Performance

- With Intel's latest power-efficient microarchitecture, advanced process technology and silicon optimizations, Intel® Core™ processors deliver outstanding power, immersive entertainment and an elevated computing experience.
- 8th Generation Intel Core processors offer a 40 percent performance leap over the previous generation Intel Core processors² and double the performance compared with a 5-year-old PC.³
- Intel continuously delivers innovative technologies that make powerful computing possible on the PC, including Intel® Core™ vPro™ processors and Intel® Optane™ technology.

Full PC Experience

- Intel Core processors provide the best-in-class PC performance that scales to any and every experience – from everyday web browsing and working on emails, to video editing and performance-demanding content creating with Windows* apps, to hours of 4K UHD movie watching and lag-free gaming.
- Intel has been working with Microsoft* closely for decades to deliver a seamless Windows experience that is trusted to work smoothly, enabling productivity in the office or while on the go. Optimization on Windows also ensures your favorite hardware peripherals, including mouse, keyboard, printer and VR headset will be connected seamlessly to your Intel-based PC.
- The company's collaboration with software developers and enterprises in the Windows ecosystem over the years also ensures that 32-bit and 64-bit applications run seamlessly on Intel-based PCs, making it easy to customize your experience with favorite applications including the Chrome* browser, Apple* iTunes*, Adobe* Photoshop Lightroom CC* or the latest PC games. Mission-critical business applications will also work reliably on Intel-based enterprise PCs.

World-Class Connectivity

- Wi-Fi, phone tethering and LTE connectivity are popular options to connect to the internet today. Intel's investment in connectivity has resulted in a comprehensive portfolio that includes the industry's leading Wi-Fi and Bluetooth® technologies, as well as compact and high-performance WWAN LTE modems. Intel will continue its Wi-Fi leadership; in December 2017, Intel announced it will offer Gigabit Wi-Fi capability on any PC platform. Offering this ultrafast connectivity with all-new Intel Pentium® Silver and Celeron® processors signals how Intel believes connectivity (Wi-Fi) integration will enable it to provide best-in-class Wi-Fi performance with platform cost savings. And it plans to deliver the next generation of Wi-Fi, 802.11ax technologies, starting this year.
- Intel is working closely with Microsoft to validate eSIM-enabled always-connected platforms with multiple carriers using the Intel® XMM™ 7260 and 7360 modems.
- Intel is continuing its deep investment in connectivity and recent announcements are evident of that: The Intel® XMM 7560 LTE modem has achieved gigabit-class speeds, Intel® XMM 7660 – the most recent Intel LTE modem – was just announced, and there has also been milestone progress with the Intel® 5G modem. This investment is critical for PC connectivity in the near future.
- 4G LTE-connected PCs are a great option when there is a need to connect regularly through reliable, personal, secured internet access for work and play, any time, from any location.

Long Battery Life

- By meticulously engineering power efficiency at a processor and platform level, Intel delivers performance with uncompromised battery life, enabling enhanced productivity and creativity.

Providing Choice

- As Intel modernizes the PC, it is enabling innovation across a wide range of PC designs, price points and connectivity options. From connected 2 in 1s and clamshells to premium gaming PCs and prosumer systems, you can expect always-connected, full PC performance to accomplish more on the go.
- In August 2017, Intel introduced the new 8th Gen Intel Core processor U-series, mobile processors enabling a range of sleek, thin and light PC designs. Expect more mobile processors and designs to come in 2018.

Partners & Design Wins

More than 30 always-connected PCs with powerful Intel performance are available worldwide today. They are offered in a range of price points and thin and light designs from our customers, including Fujitsu* HP*, Lenovo*, Samsung*, Xiaomi* and various local manufacturers. Many more designs are expected this year.

- [Acer Swift 7*](#). At just 8.98 mm thin, it delivers true portability, productivity, all-day battery life and anytime 4G LTE connectivity to perfectionists and traveling professionals alike, and is powered by the Intel Core i7 processor.
- Dell Inspiron 5280* is a 2 in 1 with built-in 4G LTE will be available in China with two months' free LTE data traffic. Featuring up to an Intel Core i7 processor and the best of Windows 10, this sleek and elegant PC makes connecting to people and every experience possible.
- [HP Envy X2*](#) is an always-connected PC built for powerful creating, working and entertainment from anywhere, with up to 17 hours of battery life (as measured by HP⁵), Intel Core processor performance and full Windows applications.

- [HP ProBook 400 Series*](#) enables professionals to stay productive in the office and on the go – while still offering a full, uncompromised Windows 10 experience.
- [Samsung's Galaxy Book 12*](#) is currently available in the U.S. via Verizon*. This 2 in 1 PC comes with an S Pen and keyboard that connects instantly and never need charging, plus lightning-fast LTE and Wi-Fi connections so you can be creative, productive and connected, no matter where you are.
- [Lenovo ThinkPad L470*](#) pairs Intel Core processors with Intel Optane technology for high-performance power that eliminates performance bottlenecks with fast storage memory. With over 12 hours of battery power⁴, the L470 helps you stay productive throughout the day.
- [Lenovo Miix 520*](#) gives people always-connected ways to create content or immerse in entertainment no matter where they are. Powered by an 8th Gen Intel Core processor, the Miix 520's thin, detachable form factor and secure always-on LTE connectivity make it possible to access, produce and edit your work – in the PC and in the cloud – from any location.
- [Google* Pixelbook.*](#) Google's high-performance Chromebook, Pixelbook, is its thinnest Chromebook ever. It features a built-in Google Assistant, a Pixelbook Pen, amazing battery life and Instant Tethering, which allows people to access their phone's data connection even when without Wi-Fi.
- [Mi Notebook Air 13.3"](#). Thin and light, it includes an Intel Core processor, DDR4 RAM, PCIe SSD, high-density battery, dedicated graphics card and GDDR5 SDRAM.

For more information, visit us at Intel.com

- Always-connected PCs: <https://www.intel.com/alwaysconnected>
- Always-connected PCs at CES: <https://newsroom.intel.com/news/2018-ces-always-connected-pc/>
- 8th Generation Intel Core processor family: <https://newsroom.intel.com/press-kits/8th-gen-intel-core/>
- Intel consumer research study on mobile computing device usage: <https://newsroom.intel.com/news/road-warriors-confess-top-tricks-pet-peeves-connecting-computing/>
- Editorial by Chris Walker, vice president, Client Computing Group and general manager, Mobility Client Platform: <https://newsroom.intel.com/editorials/do-more-create-more-connect-more-from-anywhere-you-choose/>
- Always-connected PCs at Computex: <https://newsroom.intel.com/news/always-connected-pcs-computex-increasingly-relevant-pc-todays-connected-world/>

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 <http://www.intel.com/benchmarks>.

Benchmark results were obtained prior to implementation of recent software patches and firmware updates intended to address exploits referred to as "Spectre" and "Meltdown." Implementation of these updates may make these results inapplicable to your device or system.

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.

¹Intel GIA Consumer PC Use Outside Home – Q3'17

²As measured by SYSmark 2014 SE (Second Edition) on Intel Reference Platform: Intel® Core™ i7-8550U Processor, PL1=15W TDP, 4C8T, Turbo up to 4.0GHz, Memory: 8GB DDR4-2400, Storage: Intel 600p SSD, Intel UHD Graphics 620, OS: Windows* 10 versus Intel® Core™ i7-7500U Processor, PL1=15W TDP, 2C4T, Turbo up to 3.5GHz, Memory: 8GB DDR4-2133, Storage: Intel 600p SSD, Intel HD Graphics 620, OS: Windows* 10.

³As measured by SYSmark 2014 SE (Second Edition) on Intel Reference Platform Intel® Core™ i5-8550U Processor, PL1=15W TDP, 4C8T, Turbo up to 4.0GHz, Memory: 8GB DDR4-2400, Storage: Intel 600p SSD, 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.

⁴https://www3.lenovo.com/ae/en/laptops/thinkpad/l-series/ThinkPad-L470/p/22TP2TBL470?_ga=2.89996955.1612542894.1511126208-580795183.1505755857&elq_cid=1493454

⁵Battery life tested by HP using continuous FHD video playback, 1080p (1920x1080) resolution, 150 nits brightness, system audio level at 17%, player audio level at 100%, played full-screen from local storage, headphone attached, wireless on but not connected. Actual battery life will vary depending on configuration and maximum capacity will naturally decrease with time and usage. {KBL-Y i5-7Y54, GPU UMA, 12.3" panel (1920x1280), with 128GB storage and 8GB memory, 49Whr battery, WLAN 2x2AC + BT with enabled LTE}

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