Intel® Evo™ Platform Revealed: Delivering the Best Laptops for Getting Things Done

Intel Introduces Second-Edition Specification and Key Experience Indicators for the Project Athena Innovation Program. More Than 20 Laptop Designs Based on the Intel Evo Platform Expected This Year.

Sept. 2, 2020 — During a global launch event, Intel announced the Intel® Evo™ platform brand for laptop designs, co-engineered and verified[1] through Intel's Project Athena innovation program. Intel Evo platform-based designs are powered by 11th Gen Intel® Core™ processors with Intel® Iris® X^e graphics and verified[1] to meet the second-edition specification and key experience indicators (KEIs) of Project Athena. In addition, year two of the program adds more stringent and real-world representative measurement and testing methodology to the verification process.

Introducing Intel Evo

Intel Evo platforms are co-engineered and designed to help people get the things done that matter most. With a combination of key platform technologies and system optimizations, these laptops are engineered to help remove lag, distractions and dependency on battery chargers – ensuring exceptional experiences from anywhere. All designs on the Intel Evo platform are verified[1] against the following KEI targets:

- Consistent responsiveness on battery.[2]
- Wake from sleep in less than 1 second.
- 9 or more hours of real-world battery life on laptops with full HD display.[3]
- 4 or more hours of battery life in a 30-minute charge on laptops with full HD display.[4]

Verified designs will feature the Intel Evo badge to help consumers identify the best laptops for getting things done[1]. More than 20 verified designs are expected this year, including Acer Swift 5, Asus Zenbook Flip S, Lenovo Yoga 9i and Samsung Galaxy Book Flex 5G.

Rearchitecting Laptop Innovation and Measurement

Project Athena is Intel's long-term commitment to deliver the future's most advanced laptop experiences and form factors. In 2019, Intel laid the technical foundation for the program and built the infrastructure necessary to get there. Derived from real-world research on how people use their laptops, Intel developed KEI engineering metrics as an experience-focused framework on which to measure all Project Athena-based designs. Intel measures workflows in a realistic environment versus isolated tasks under controlled conditions, providing a preview into how a laptop will perform each day.

In 2020, Intel intensified its testing methodology to be even more true to life. Verification of second edition designs pays attention to the interaction between local and cloud-based tasks to better reflect today's agile work environment. Intel's research found that most people have multiple cloud-based accounts logged in while companion apps—such as Chrome, Zoom, Spotify or Twitter—run simultaneously in the background. Intel has also intensified the workload testing and number of tasks that KEIs are measured against – 25 tasks, compared to 15 in the first edition – to help ensure laptop designs deliver the experiences and technologies promised under real-world conditions.

Second-Edition Target Specification

All Intel Evo platform designs are powered by 11th Gen Intel® Core™ i7 or i5 processors with Intel Iris X^e graphics, feature best-in-class wireless and wired connectvity[5] with Thunderbolt™ 4 and Intel® Wi-Fi 6 (Gig+), and deliver exceptional audio and display to make each experience premium.

Ongoing Ecosystem Support

Project Athena has the support of more than 150 ecosystem partners, including Acer, Asus, Dell, Dynabook, Google, HP, Innolux, Lenovo, Microsoft, Samsung and Sharp, among many others. Together, they continue to push the boundaries of laptop innovation as they look to the future of adaptive PC experiences leveraging artificial intelligence, 5G and new form factors.

Intel is also expanding its educational work within the ecosystem to ensure partners are confident in Project Athena's unique methodology, as it continues to co-engineer the most advanced laptop experiences and designs. As part of this commitment, Intel has released its automated testing tool to partners to assess, tune and improve their laptop designs for better performance and battery life.

Since opening in June 2019, Intel's Open Labs in Taipei, Shanghai and Folsom, California, continue to support performance and low-power optimization of vendor components for laptops aligned to Project Athena. Utilization of Open Labs is exceptional across ecosystem partners – on average, operating at 90% utilization of available testing and validation resources of vendor components. More than 140 laptop components have been validated through Open Labs to date, and this year, Intel broadened component vendor assessment to include memory and solid-state drives with customized firmware. These efforts combined will continue to help drive consistency in delivering Intel's North Star vision for advanced laptop experiences.

More Context: Project Athena Press Kit | Intel.com/ProjectAthena

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.

Performance results are based on testing as of dates shown in configurations and may not reflect all publicly available updates. See www.intel.com/11thgen for configuration details. No product or component can be absolutely secure.

Your costs and results may vary.

Intel technologies may require enabled hardware, software or service activation.

Intel does not control or audit third-party data. You should consult other sources to evaluate accuracy.

All product plans and roadmaps are subject to change without notice.

[1] Verified, measured and tested against a premium specification and Key Experience Indicators as part of Intel's laptop innovation program Project Athena. Testing results as of August 2020, and do not guarantee individual laptop performance. Power and performance vary by use, configuration and other factors. For more complete information about performance and benchmark results, visit Intel.com/Evo.
[2] Measured responsiveness of premium Windows OS-based designs while performing typical workflows in a realistic environment. For more complete information about performance and benchmark results, visit intel.com/Evo.
[3] Time taken to drain from 100% to critical battery level while performing typical workflows in a realistic environment. For more complete information about performance and benchmark results, visit intel.com/Evo.
[4] Charge attained from OEM-default shutdown level. For more complete information about performance and benchmark results, visit intel.com/Evo.
[5] Based on integrated Intel® Wi-Fi 6 (Gig+) and Thunderbolt™ 4 technology. For more complete information about performance and benchmark results, visit intel.com/Evo.

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