ICE LAKE
ENTERTAINMENT & PERFORMANCE LIKE NEVER BEFORE
REDEFINING WHAT’S POSSIBLE IN A THIN & LIGHT PC
- Built for the AI Software of the Future
  Helps customers get it all done fast with the ultimate built-in AI that enables amazingly efficient and intelligent processing.

COMET LAKE
UNCOMPROMISED PRODUCTIVITY
REMARKABLY THIN & LIGHT DESIGNS
- Productivity Powerhouse
  Performance and responsiveness for demanding multi-threaded workloads including commercial segments.

INTELLIGENT PERFORMANCE
- Helps customers get it all done fast with the ultimate built-in AI that enables amazingly efficient and intelligent processing.

STUNNING ENTERTAINMENT
- Big Leap in Entertainment
  Groundbreaking visuals with Intel® Iris® Plus graphics.

BEST CONNECTIVITY
- Redefining PC Connectivity with Wi-Fi 6 & Thunderbolt™ 3
  Biggest Wi-Fi architecture change in a decade enabling best-in-class Wi-Fi performance. Integrated with Thunderbolt™ 3, the fast and versatile connector.

ADVOCACY
- Thinner and sleeker systems requiring optimal CPU, 3D graphics and media performance with built-in AI capabilities.
- Performance optimized systems requiring optimal CPU performance for productivity in remarkably thin and light designs.

Codenames cannot be used with end-customers
REDEFINING WHAT'S POSSIBLE IN THIN AND LIGHT COMPUTERS

INTELLIGENT PERFORMANCE

- Intelligent performance for the software and workloads of today and tomorrow
- Adapt to the things customers do, for a more personalized and responsive experience
- Automatic tuning and advanced control for processor performance

STUNNING ENTERTAINMENT

- Highest performing integrated Graphics on a thin and light PC²
- Play top games at 1080p
- Pro-level content creation
- Watch 4K60 HDR video in a billion colors

BEST-IN-CLASS CONNECTIVITY

- Intel® Wi-Fi 6 GIG+ provides optimal Wi-Fi 6 implementation for PCs with more responsive performance throughout the connected home
- Thunderbolt™ 3 integrated for the first time with up to 4 ports for fast, versatile connection to any dock, display or data device

See Legal/Performance disclaimers & configuration disclosures slide for details. No product can be absolutely secure. Software and workloads used in performance tests may have been optimized for performance only on Intel microprocessors. For more complete information about performance and benchmark results, visit http://www.intel.com/benchmarks
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**NEW INTEL® IRIS® PLUS GRAPHICS FOR ICE LAKE**

**NEXT-GEN GRAPHICS FOR ULTRA-VIVID, IMMERSIVE ENTERTAINMENT & GAMING**

- Intel's first TeraFLOPS Iris® Graphics
- High performance for Mainstream and Enthusiast
- Smooth 4K HDR playback for a premium visual experience
- Fast, power efficient content creation on the go
- Faster content creation with AI/ML acceleration compared to prior gen Intel® Graphics

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ICE LAKE WITH THE POWER OF ARTIFICIAL INTELLIGENCE

THE WORLD’S FIRST FULLY INTEGRATED AI ENHANCED PLATFORM

FIRST AI INSTRUCTION SET

on a Thin and Light Computer

LOW POWER ACCELERATORS

Optimized for LOCAL AI VOICE Applications

INTELLIGENT PERFORMANCE

Approx. 2.5X AI PERFORMANCE vs prior generation

PERFORMANCE ACCELERATION WITH DL BOOST

Approx. 8X PERFORMANCE vs Competition using Intel® Deep Learning (DL) Boost

HIGH THROUGHPUT, SUSTAINED WORKLOADS

with Intel® Iris® Plus Graphics

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10TH GEN INTEL® CORE™
(COMET LAKE U/Y)
UNCOMPROMISED PRODUCTIVITY.
REMARKABLY THIN AND LIGHT DESIGNS.

UNCOMPROMISED PRODUCTIVITY
• Built-in intelligent performance features anticipate user needs and adapt to them
• More personal than ever with natural, seamless & responsive interactions using voice services on the integrated quad-core aDSP

ON-THE-GO ENTERTAINMENT
• Experience the same powerful, multitasking-capable performance whether plugged-in or on the move
• Stream premium UHD content or game in HD with Intel® UHD graphics

BEST-IN-CLASS CONNECTIVITY
• Wi-Fi 6 enables quick downloads and more responsive performance throughout the connected home
• Thunderbolt™ 3 delivers the fastest, most versatile connection to any dock, display or data device

LONG-LASTING BATTERY LIFE

EXPERIENCE 4K VISUALS

UP TO 16% BETTER OVERALL PERFORMANCE than prior generation

FASTER MEMORY SPEEDS compared to prior gen® and LPDDR4 MEMORY SUPPORT coming

UNCOMPROMISED PRODUCTIVITY.

Remarkably Thin and Light Designs.

Faster Memory Speeds compared to prior gen® and LPDDR4 MEMORY SUPPORT coming

Best-in-Class Connectivity

Nearly 3X FASTER WIRELESS SPEED with Intel® Wi-Fi 6 (Gig+) than last generation Wi-Fi (.11ac)®

Up to 8X MORE BANDWIDTH Thunderbolt™ 3 vs USB 3.0®

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LEGAL/PERFORMANCE DISCLAIMERS & CONFIGURATION DISCLOSURES

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 aid in deciding if these results are applicable to your configuration.

Performance results are based on testing of the date in the configurations and may not reflect all publicly available security updates. See security details for more information.

1. Lead design with Intel Adaptix provides additional 20% graphics performance. Workload: 3DMark 11 v 1.0.132 10,659 graphics score. Dell XPS pre-production laptop with Intel Adaptix technology enabled, Processor: Intel® Core™ i7-1065G7, BIOS version 1.0.7. Memory: 2x16GB LPDDR4-3200, Storage: Toshiba 0EB02PP10T0 2TB 2.5" 8700K SSD, display resolution: UHD, OS: Windows® 10 19H1, Vs configuration – Intel internal RVP, Processor: Intel® Core™ i7-1065G7, PL1=15W TDP, Memory: 2x16GB LPDDR4-3200 32KB, Storage: Intel® SSDPEKKW512G8 512GB, Windows® 10 RS5 BUILD 1903, 6C12T, Turbo up to 4.70GHz, Memory: 2x16GB DDR4-2400, Storage: SK Hynix BC501 256GB, BIOS X208, OS Version 44.1832.175, Edge Version 10.0.18362.175, Microsoft Windows 10 Enterprise, Resolution: 1920 x 1080, BIOS F.07=

2. Higher performing integrated graphics on a thin & light: AMD 3700U 25W vs. ICL 25W 2CPA comparison. Intel has a 16% edge in Overwatch and the lead in many other games like Fortnite, Rainbow Six Siege, World of Tanks, and 3DMark Firestrike.

3. Measured on platforms with: Production HP Envy x360 15m-d0012dx, Ryzen 7 Graphics 17134.112, OS: Windows® 10 RS5 BUILD 475, BIOS F.07=

4. Intel pre-production laptop: URP, PL1= 15W, 4C/8T, Turbo TBD, Intel Gen11 Graphics, pro-production gxf driver, Memory: 8GB LPDDR4x-3733, Storage Intel SSD Pro 7600P 256GB, Windows 10 RS5 Build 475

5. Approx. 2x Ice Lake Graphics Performance and up to 3X faster FPS: Workload: 3DMark 11 v 1.0.132, Intel PreProduction ICL U 4+2 15W Configuration (Assumptions), Processor: Intel® Core™ i7-1165G7, PL1=15W TDP, 4C/8T, Memory: 2x8GB LPDDR4-3733 2x8KB, Storage: Intel® SSDPEKKW512G8 512GB with Intel Microsoft driver, Display Resolution: 3840x2160 eDP Panel, 125% sRGB, Windows® 10 RS5 BUILD 1903, 6C12T, 6GHz Turbo, Memory: 2x16GB DDR4-2400, Storage: SK Hynix BC501 256GB, Windows 10 RS Build 1903, 6C12T, Turbo up to 4.9GHz, Memory: 2x16GB DDR4-2400, Storage: SK Hynix BC501 256GB, Windows 10 RS Build 475

6. Approx. 2x Ice Lake Graphics Performance and up to 1.8X faster FPS: Workload: 3DMark 11 v 1.0.132, Intel PreProduction ICL U 4+2 15W Configuration (Assumptions), Processor: Intel® Core™ i7-1165G7, PL1=15W TDP, 4C/8T, Memory: 2x8GB LPDDR4-3733 2x8KB, Storage: Intel® SSDPEKKW512G8 512GB with Intel Microsoft driver, Display Resolution: 3840x2160 eDP Panel, 125% sRGB, Windows® 10 RS5 BUILD 1903, 6C12T, 6GHz Turbo, Memory: 2x16GB DDR4-2400, Storage: SK Hynix BC501 256GB, Windows 10 RS Build 475

7. Approx. 2x Ice Lake Video Encode: Based on 4k HEVC to 4k HEVC transcoding (fbit). Intel pre-production system: ICL 15W compared to Intel 17134.112, OS: Windows® 10 RS5 BUILD 1903, BIOS F.07=

8. Approx. 2x Ice Lake Video Encode: Based on 4k HEVC to 4k HEVC transcoding (fbit). Intel pre-production system: ICL 15W compared to Intel 17134.112, OS: Windows® 10 RS5 BUILD 1903, BIOS F.07=


10. Up to 16% Better Performance Vs. Previous Gen as measured by SYSmark2018 Overall Score, Intel Preproduction Processor: Intel® Core™ i7-10750U (CML-U 6+2) PL1=25W, 6C12T, Turbo up to 4.70GHz, Memory: 2x16GB DDR4-2667 2x8KB, Storage: Intel® 760P M.2 PCIe NVMe SSD with AHCI driver, Display Resolution: 3840x2160 eDP Panel, 125% sRGB, Windows® 10 19H1-18305.01-x64-Appx3-Graphics driver: PROD-H-RELEASES-GFX-DRIVER-CI-MASTBR-2334-REVENUE-PR-1066552-WHL-venv-7-20191022.0, Graphics Driver Version 26.20.100.6793, Memory 2x16GB DDR4, Storage Intel® SSDPEKKW512G8, BIOS X208, OS Version 44.1832.175, Edge Version 10.0.18362.175, Windows® 10 Enterprise, Resolution: 1920 x 1080, BIOS F.07=PL1=15W.

11. Approx. 2x Ice Lake Video Wireless: 802.11ax 2x2:160MHz enables 2402Mbps maximum theoretical data rates, ~3x (2.8X) faster than standard 802.11ac 2x2 867Mbps as documented in IEEE 802.11 wireless standard specifications, and require the use of similarly configured 802.11ax wireless network routers.

12. Data transfer rates, different from total available bandwidth for data and display traffic, depend on system configuration. Data transfer rates depend on system configuration.

13. Cyberlink PowerDirector - Stylize a video.


15. Comparing DDR4-2,666 MHz speeds on 10th Gen Intel® Core™ U-series processors (Comet Lake) with DDR4-2,400 MHz speeds on 8th Gen Intel® Core™ U-series processors (Whiskey Lake).

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MARKETING RESOURCES

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PARTNER MARKETING CAMPAIGNS – 10TH GEN INTEL® CORE™ MOBILE PROCESSORS

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ODM SYSTEMS EQUIPPED WITH 10TH GEN INTEL® CORE™ MOBILE PROCESSORS

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