Your PC becomes a trusted business partner that knows what you need, and helps you work faster

Relative Multitasking Performance\(^1\) (Higher is Better)

<table>
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<tr>
<th>PC equipped with tri-level cell NAND SSD alone</th>
<th>PC with Intel® Optane™ Memory H10 with Solid State Storage</th>
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<tbody>
<tr>
<td>UP TO 2X FASTER DOCUMENT LOADING WHILE MULTITASKING</td>
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Industry strategic challenges

Today’s business PC users rely on multitasking as a make-or-break strategy for getting their work done efficiently and on time. They demand more performance to use more applications at once and to run more background programs than ever. In fact, the average business PC user launches about 12 unique applications daily\(^2\) and opens each of them about eight times.\(^3\) They might be working simultaneously in presentations, documents, and spreadsheets, plus using VOIP, video, and desktop sharing. And they are doing all of this while running essential tasks like email, file syncing, security programs and other IT services in the background.

PCs are a critical business tool. To meet increasing performance needs, many companies invest in high-cost DRAM memory. But even this solution doesn’t meet the fast-evolving requirements of today’s businesses. When PC performance lags, so does users’ performance. Deadlines are missed, frustration rises, and the business suffers. Today’s business users need responsiveness they can count on, even when their PCs are running many tasks at the same time.

New solution gives business PCs even more responsiveness and capacity

To meet these business challenges, Intel developed Intel® Optane™ memory, an intelligent system acceleration solution. Intel Optane memory allows users to very quickly access the applications and files most important to them. The initial product from the Intel® Optane™ memory family accelerated SATA-based HDDs. Now there is an Intel Optane memory solution with a single-socket space-saver design, ideal for thin and light 2-in-1 notebooks and compact desktops—Intel® Optane™ memory H10 with solid state storage (Intel® Optane™ memory H10).

Intel® Optane™ memory H10 combines Intel® Optane™ memory and Intel® QLC 3D NAND onto a single device. A PC with Intel® Optane™ memory delivers the superior responsiveness needed to work efficiently, plus high-capacity, reliable storage demanded by today’s users. This solution delivers:

- **Better multitasking performance**: Enables seamless work flow because background tasks have minimal impact on foreground application responsiveness.
- **A personalized SSD experience**: Identifies and accelerates users’ most-accessed files and applications, providing performance uniquely tailored to the way they work.
- **Optimized performance for real-world workloads**: Delivers the best real-world performance (compared to NAND SSDs) for the kinds of office and business applications typical PC users run every day.
Business Benefits

• Accomplish more in less time with effective multitasking
• Work with resource-intensive applications with less wait, even those that require more resources and larger files
• Get improved performance and efficiency due to the automatic acceleration of most-frequently used applications and files

Digital transformation and business innovation

These days, business users are rarely working with only one application at a time. And typically, multiple background tasks, whether initiated by the user, the IT administrator, or the OS, are also running. Intel® Optane™ memory H10 is made for this level of multitasking, allowing PCs to stay responsive and keeping background applications from impacting foreground application performance. Businesses can benefit from the capabilities of today’s demanding applications—launching and accessing them faster, while working with increasingly larger files. And more responsive multitasking allows users to get more work done faster, which can improve productivity, morale, and the bottom line.

A new level of system responsiveness... and more

• Outstanding performance plus high-capacity storage: Provides better responsiveness, even when running demanding applications6
• Smooth multitasking: Delivers premium performance even when the PC is running multiple applications and background tasks8
• Optimal personalized experience: Adapts to user needs by accelerating frequently used applications and files
• Lasting performance: Maintains performance under load, over time as the drive fills
• Secured data: Provides peace of mind with support for Microsoft® BitLocker encryption and other industry-standard security protections like secure erase
• Easy manageability:9 Shows up to users, OS, and IT utilities as one storage volume, with no special tools needed for deployment and management line.

Intel technology foundation

Intel has been delivering innovative memory and storage solutions to help businesses with digital transformation. This solution builds on the breakthroughs of the Intel Optane technology family and benefits business client PCs with the most demanding multitasking loads.

Where to get more information

• Intel® Optane™ memory website
• Intel® Optane™ memory Frequently Asked Questions
• Intel® vPro™ platform website

1 Intel tested. As measured by Document Launch with Background Activity (i.e., 18 GB Video File Copy), comparing 8th Gen Intel® Core™ (7-8565U processor (512 GB TLC SSD) vs. 8th Gen Intel® Core™ i7-8565U processor (32 GB + 512 GB Intel® Optane™ Memory H10 with solid state storage).

Configuration 1: Intel® Core™ i7-8565U processor, PL1=15W TDP, 4C8T, Turbo up to 4.6 GHz on Intel® Reference Platform, Graphics: Intel® UHD Graphics 620, Memory: 2x 4 GB DDR4, Storage: 512 GB Intel® SSD 760p, OS: Windows® 10 RS5 Version 1809, Build 17763.253, MCU Ox9A.

Configuration 2: Intel® Core™ i7-8565U processor, PL1=15W TDP, 4C8T, Turbo up to 4.6 GHz on Intel® Reference Platform, Graphics: Intel® UHD Graphics 620, Memory: 2x 4 GB DDR4, Storage: 32 GB + 512 GB Intel® Optane™ Memory H10 with solid state storage, OS: Windows® 10 RS5 Version 1809, Build 17763.253, MCU Ox9A.


6 Source: Intel® Computing Improvement Program Q2'19: 131,330 systems, Desktop/Laptop/2 in 1 Windows 10*. Intel® Core™ processors.

Statistical represents an average across distinct applications. Actual number of applications opened per day may be higher. For instance, if Chrome® is opened 5 times a day it is counted only once in this calculation.

7 Source: Intel® Computing Improvement Program Q2'19: 131,330 systems, Desktop/Laptop/2 in 1 Windows 10*. Intel® Core™ processors.

Intel® Core™ processors. Statistical represents an average across all applications across all systems. This number can vary depending on the application. For instance, this number can be higher for an application like Chrome® and much lower for an application like iTunes® or Calculator, etc.

8 See endnote 1

9 Other names and brands may be claimed as the property of others.

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