

# Intel® Optane™ Technology Product Portfolio

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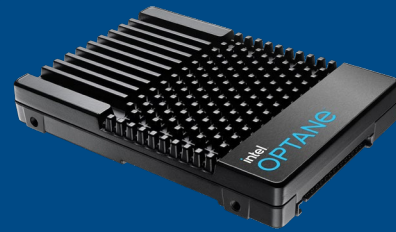
# Intel® Optane™ Technology



Intel® Optane™  
SSD DC  
P4800X/P4801X

PCIe\* 3.0 x4, NVMe

100GB  
200GB  
375GB  
750GB  
1.5TB



Intel® Optane™  
P5800X

PCIe\* 4.0 x4, NVMe

400GB  
800GB  
1.6TB



Intel® Optane™  
PMem 100 Series

Persistent Memory  
Module (PMM)

128GB  
256GB  
512GB



Intel® Optane™  
PMem 200 Series

Persistent Memory  
Module (PMM)

128GB  
256GB  
512GB

# Intel® Optane™ Technology Product Portfolio – Client



**Intel® Optane™  
Memory H20 with  
Solid State Storage**

PCIe 3.0 x4, NVMe  
(Combined)

Intel® Optane™ Memory + Intel® QLC 3D NAND  
32GB 512GB  
32GB 1TB



**Intel® Optane™  
Memory H10 with  
Solid State Storage**

PCIe 3.0 x4, NVMe  
(Combined)

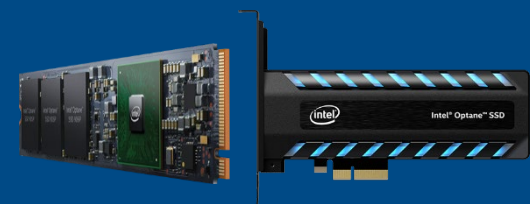
Intel® Optane™ Memory + Intel® QLC 3D NAND  
16GB 256GB  
32GB 512GB  
32GB 1TB



**Intel® Optane™  
Memory M10**

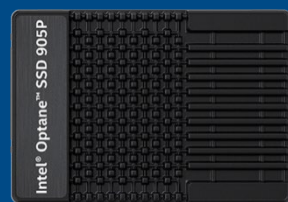
M10: PCIe 3.0 x2, NVMe

16GB  
32GB  
64GB



**Intel® Optane™ SSD 905P**

PCIe 3.0 x4, NVMe



380GB, 480GB,  
960GB, 1.5TB



**Intel® Optane™ SSD 900P**

PCIe 3.0 x4, NVMe



280GB  
480GB



**Intel® Optane™ SSD 800P**

PCIe 3.0 x2, NVMe

58GB  
118GB

# Intel® Optane™ Technology Product Portfolio – Data Center

Product	Intel® Optane™ SSD DC P4800X/P4801X	Intel® Optane™ SSD DC P4800X with Intel® Memory Drive Technology	Intel® Optane™ SSD DC D4800X	Intel® Optane™ SSD DC P5800X	Intel® Optane™ Persistent Memory 100 Series	Intel® Optane™ Persistent Memory 200 Series
Image						
Audience	Data Center, Cloud, Enterprise	Data Center, Cloud, Enterprise	Data Center, Cloud, Enterprise	Data Center, Cloud, Enterprise	Data Center, Cloud, Enterprise	Data Center, Cloud, Enterprise
Positioning	<b>Highly responsive SSD</b> delivering an industry-leading combination of high throughput, low latency, high QoS, and high endurance.	<b>Revolutionary software</b> increases memory capacity beyond DRAM limitations and transparently delivers DRAM-like performance.	First Intel® Optane™ Technology-based high availability dual port drive offering <b>greater resiliency for enterprise storage solutions.</b>	“No-compromises” I/O performance with <b>the world's fastest data center SSD<sup>1</sup></b> , and high endurance for the most demanding environments.	<b>Disrupt the traditional memory-storage hierarchy</b> with a new tier to fill the memory-storage gap, providing greater overall performance, efficiency, and affordability.	Designed for organizations looking to <b>achieve greater insights from more data</b> with a high-performance, high-capacity, persistence-capable, flexible, and affordable alternative to traditional DRAM.
Use Cases	Extend memory via Linux Swap, application optimization, and caching	Extend Linux OS virtual memory. Displace DRAM up to 8:1 in select workloads (i.e.: Analytic, In-memory database, HPC, Batch workloads)	High availability and performance are crucial for enterprise storage architectures providing Mission Critical applications, such as online transaction processing for financial services.	<b>Accelerating:</b> faster access to data about data (metadata, journal, logging, temp data) <b>Caching:</b> temporarily copy or hold hottest data <b>Tiering:</b> intelligently store hottest data	Higher system performance with larger memory, and much higher endurance than NAND SSDs for write-intensive workloads.	Achieve actionable insights faster from larger volumes of business data, address rising costs of memory infrastructure, and respond to competitive pressure to innovate using analytics and to make use of vast volumes of business data.
Interface/FF/Capacity <sup>2</sup>	PCIe 3.0 x4, NVMe 1.2 U.2 15mm, AIC, M.2 U.2: 375, 750GB, 1.5TB AIC: 375, 750GB, 1.5TB P4801X M.2: 100, 200, 375GB	PCIe 3.0 x4, NVMe 1.2 U.2 15mm, AIC 375, 750GB, 1.5TB	PCIe 3.0 2x2, NVMe U.2 15mm U.2: 375, 750GB, 1.5TB	PCIe 4.0 x4, NVMe U.2 15mm 400GB, 800GB, 1.6TB	Persistent Memory Module (PMM) 128, 256, 512GB	Persistent Memory Module (PMM) 128, 256, 512GB
Additional Information	<a href="#">Product page</a> <a href="#">Product spec</a> <a href="#">Product Brief</a> <a href="#">Assets</a>	<a href="#">Product Brief</a>	<a href="#">Product Page</a> <a href="#">Product Spec</a> <a href="#">Product Brief</a>	<a href="#">Product Page</a> <a href="#">Product Brief</a>	<a href="#">Product Page</a> <a href="#">Product Spec</a> <a href="#">Product Brief</a>	<a href="#">Product Brief</a> <a href="#">Product Spec</a>

<sup>1</sup>Source – Intel. As compared to generally available PCIe Gen4 x4 Enterprise and Data Center industry SSDs. Results may vary

# Intel® Optane™ Technology Product Portfolio – Client

Product	Intel® Optane™ Memory H20 with Solid State Storage	Intel® Optane™ Memory H10 with Solid State Storage	Intel® Optane™ Memory M10	Intel® Optane™ SSD 905P	Intel® Optane™ SSD 900P	Intel® Optane™ SSD 800P
Image						
Status	Shipping 2021 -	Shipping 2019 -	EOL	EOL	EOL	EOL
Audience	Consumer and Business Client	Consumer and Business Client	General Consumer	Enthusiast/Workstation	Enthusiast/Workstation	General Consumer
Positioning	<b>Adds responsiveness and capacity to your computer.</b> Intelligently combines the attributes of Intel® Optane™ memory and Intel® QLC 3D NAND storage in a single space-saver M.2 FF	<b>Adds responsiveness and capacity to your computer.</b> Intelligently combines the attributes of Intel® Optane™ memory and Intel® QLC 3D NAND storage in a single space-saver M.2 FF	Acceleration and responsiveness helps you work, create, and play faster.	High performing Intel® SSD sets the precedent for high performance desktops and workstations. Designed for the most storage-demanding desktop or workstation workloads.	High performing Intel® SSD sets the precedent for high performance desktops and workstations. Designed for the most storage-demanding desktop or workstation workloads.	High performing Intel® SSD in the M.2 form-factor for mobile and desktop platforms
Use Cases	System acceleration with 11 <sup>th</sup> Gen and newer Core-based systems	System acceleration with 8 <sup>th</sup> Gen and newer Core-based systems	Accelerate HDD or SATA-based SSD mobile and desktop platforms, to affordably get both capacity and responsiveness.	Content Creation, Engineering, Video Rendering, Game Development	Workstation, high-end desktop, enthusiast, digital content creation, Engineering.	Optimized for fast application loading, RAID, and fast boot.
Interface/FF/Capacity <sup>2</sup>	PCIe 3.0 x4, M.2 32GB + 512GB, 32GB + 1TB	PCIe 3.0 x4, M.2 16GB + 256GB, 32GB + 512GB, 32GB + 1TB	PCIe 3.0 x2, NVMe, M.2 16, 32, 64GB	PCIe 3.0 x4, NVMe Add-in Card, 2.5in x 15mm U.2, M.2 M.2: 380GB AIC: 960GB, 1.5TB U.2: 480, 960GB, 1.5TB	PCIe 3.0 x4, NVMe Add-in Card, 2.5in x 15mm U.2 AIC: 280, 480GB U.2: 280GB	PCIe 3.0 x2, NVMe, M.2 58, 118GB
Additional Information	<a href="#">Product Page</a> <a href="#">Product Brief</a>	<a href="#">Product Page</a> <a href="#">Product Brief</a>	<a href="#">Product page</a> <a href="#">Product Brief</a>	<a href="#">Product Page</a> <a href="#">Product Brief</a>	<a href="#">Product Page</a> <a href="#">Product Brief</a>	<a href="#">Product page</a> <a href="#">Product Brief</a>

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