Intel® Optane™ SSD 905P Series

480GB, 2.5in PCIe x4, 3D XPoint™

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* [Ordering & Compliance](https://www.intel.com/content/www/us/en/products/sku/147528/intel-optane-ssd-905p-series-480gb-2-5in-pcie-x4-3d-xpoint/ordering.html)
* [Downloads](https://www.intel.com/content/www/us/en/products/sku/147528/intel-optane-ssd-905p-series-480gb-2-5in-pcie-x4-3d-xpoint/downloads.html)
* [Support](https://www.intel.com/content/www/us/en/products/sku/147528/intel-optane-ssd-905p-series-480gb-2-5in-pcie-x4-3d-xpoint/support.html)
* [Essentials](https://www.intel.com/content/www/us/en/products/sku/147528/intel-optane-ssd-905p-series-480gb-2-5in-pcie-x4-3d-xpoint/specifications.html#specs-1-0-0)
* [Performance Specifications](https://www.intel.com/content/www/us/en/products/sku/147528/intel-optane-ssd-905p-series-480gb-2-5in-pcie-x4-3d-xpoint/specifications.html#specs-1-0-1)
* [Reliability](https://www.intel.com/content/www/us/en/products/sku/147528/intel-optane-ssd-905p-series-480gb-2-5in-pcie-x4-3d-xpoint/specifications.html#specs-1-0-2)
* [Supplemental Information](https://www.intel.com/content/www/us/en/products/sku/147528/intel-optane-ssd-905p-series-480gb-2-5in-pcie-x4-3d-xpoint/specifications.html#specs-1-0-3)
* [Package Specifications](https://www.intel.com/content/www/us/en/products/sku/147528/intel-optane-ssd-905p-series-480gb-2-5in-pcie-x4-3d-xpoint/specifications.html#specs-1-0-4)
* [**Advanced Technologies**](https://www.intel.com/content/www/us/en/products/sku/147528/intel-optane-ssd-905p-series-480gb-2-5in-pcie-x4-3d-xpoint/specifications.html#specs-1-0-5)

Essentials

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Product Collection

[Intel® Optane™ SSD 9 Series](https://www.intel.com/content/www/us/en/ark/products/series/213701/intel-optane-ssd-9-series.html)

Code Name

[Products formerly Mansion Beach](https://ark.intel.com/content/www/us/en/ark/products/codename/67236/mansion-beach.html)

Capacity

480 GB

Marketing Status

Discontinued

Launch Date

Q2'18

Lithography Type

3D XPoint(TM)

Performance Specifications

Sequential Bandwidth - 100% Read (up to)

2600 MB/s

Sequential Bandwidth - 100% Write (up to)

2200 MB/s

Random Read (8GB Span) (up to)

575000 IOPS (4K Blocks)

Random Write (8GB Span) (up to)

550000 IOPS (4K Blocks)

Power - Active

12.8W

Power - Idle

3.3W

Reliability

Vibration - Operating

2.17 GRMS (5-700Hz)

Vibration - Non-Operating

3.13 GRMS (5-800Hz)

Shock (Operating and Non-Operating)

1000G (0.5ms)

Operating Temperature Range

0°C to 85°C

Max Operating Temperature

85 °C

Minimum Operating Temperature

0 °C

Endurance Rating (Lifetime Writes)

8.76 PB Written

Mean Time Between Failures (MTBF)

1.6 million hours

Uncorrectable Bit Error Rate (UBER)

1 Sector per 10^17 bits read

Warranty Period

5 yrs

Supplemental Information

Product Brief

[View now](https://www.intel.com/content/www/us/en/products/docs/memory-storage/solid-state-drives/enthusiast-ssds/optane-ssd-905p-brief.html)

Package Specifications

Weight

Up to 140 grams

Form Factor

U.2 15mm

Interface

PCIe 3.0 x4, NVMe

Advanced Technologies

Hardware Encryption

AES 256 bit

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Refer to Datasheet for formal definitions of product properties and features.

‡ This feature may not be available on all computing systems. Please check with the system vendor to determine if your system delivers this feature, or reference the system specifications (motherboard, processor, chipset, power supply, HDD, graphics controller, memory, BIOS, drivers, virtual machine monitor-VMM, platform software, and/or operating system) for feature compatibility. Functionality, performance, and other benefits of this feature may vary depending on system configuration.

“Announced” SKUs are not yet available. Please refer to the Launch Date for market availability.