

### Overview

### Intel® Optane™ Memory 16GB (cache)

#### Models

Intel® Optane™ Memory 16GB (cache)

1WV97AA

#### Compatibility

Intel® Optane™ Memory 16GB (cache) for HP Business Desktop PCs is compatible with:

HP ProDesk 400 G4 SFF, HP ProDesk 400 G4 MT, HP ProDesk 400 G3 DM (Mini), HP ProOne 400 G3 AIO Touch, HP ProOne 400 G3 AIO Non-Touch, HP ProDesk 600 G3 MTW, HP ProDesk 600 G3 SFF, HP ProDesk 600 G3 Desktop Mini, HP ProOne 600 G2 AIO 21.5" Touch, HP ProOne 600 G3 AIO 21.5" Non-Touch, HP EliteDesk 800 G3 TWR, HP EliteDesk 800 G3 SFF, HP EliteDesk 800 G3 35W Desktop Mini, HP EliteDesk 800 G3 65W Desktop Mini, HP EliteOne 800 G3 AIO 23.8" NT, HP EliteOne 800 G3 AIO 23.8" Touch, HP EliteOne 800 G3 AIO 23.8" Touch 4K, HP EliteOne 1000 G1 AiO

**NOTE:** All models may not be available in all regions.

Intel® Optane™ for HP desktops and notebooks requires a 7th Gen Intel® Core™ processor, BIOS version with Intel® Optane™ supported, Windows 10, version 1703, an Intel® 200 series chipset, M.2 type 2280-S1-B-M connector on a PCH Remapped PCIe Controller and Lanes in an x2 or x4 configuration with B-M keys that meet NVMe™ Spec 1.1 and Intel® Rapid Storage Technology (Intel® RST) 15.5 driver.

Intel® Optane™ is available for select HP workstations (HP Z240 Tower and SFF and Z2 Mini) and requires a SATA HDD, 7th Gen Intel® Core™ processor or Intel® Xeon® processor E3-1200 V6 product family, BIOS version with Intel® Optane™ supported, Windows 10, M.2 type 2280-S1-B-M connector on a PCH Remapped PCIe Controller and Lanes in a x2 or x4 configuration with B-M keys that meet Intel® NVMe™ Spec 1.1, and an Intel® Rapid Storage Technology (Intel® RST) 15.5 driver.

#### Service and Support

Your Option Limited Warranty is a one (1) year (HP Option Limited Warranty Period) parts replacement warranty on any HP-branded or Compaq-branded options (HP Options). If your HP Option is installed in an HP Hardware Product, HP may provide warranty service either for the HP Option Limited Warranty Period or the remaining Limited Warranty Period of the HP Hardware Product in which the HP Option is being installed, whichever period is the longer but not to exceed three (3) years from the date you purchased the HP Option.

### Technical Specifications

<b>Memory Technology</b>	Intel® 3D Xpoint™ Memory Technology
<b>Standard Memory Speed</b>	900 MB/s Sequential 128KB Read; 145 MB/s Sequential 128KB Write
<b>Standard Memory Capacity<sup>1</sup></b>	16 GB
<b>PCIe</b>	Gen3 x2
<b>M.2 Form Factors</b>	2280-S1-B-M
<b>Product Dimensions (W x L x H)</b>	22mm (W) x 80mm (L) x 1.5mm (H) 0.87in (W) x 3.15in (L) x 0.06in (H)
<b>Weight</b>	< 10 g < 0.022 lb
<b>Performance<sup>2,3</sup></b>	Seq R/W: Up to 900/145 MB/s <sup>4</sup> 4KB <sup>5</sup> Random Read: Up to 190K 4KB <sup>5</sup> Random Write: Up to 35K
<b>Latency (average sequential)</b>	Read: 8.25 µs (TYP) Write: 30 µs (TYP)
<b>Operating System Support<sup>6,7</sup></b>	Windows 10 64bits – creators update
<b>Supported Platforms<sup>6,7</sup></b>	Intel® 7th Generation Core™ Chipsets and newer
<b>Reliability</b>	Uncorrectable Bit Error Rate (UBER): 1 sector per 10-15 bits read – Mean Time Before Failure (MTBF): 1.6 million hours
<b>Power<sup>8</sup></b>	3.3V Supply Rail Active/Idle: 3.5W/~1W
<b>Compliance</b>	NVM Express* 1.1 PCI Express* Base Specification Rev 3.0 PCI M.2 HW Spec
<b>Certifications and Declarations</b>	UL*, CE*, C-Tick*, BSMI*, KCC*, Microsoft WHQL*, VCCI*
<b>Endurance Rating</b>	40 GB Writes Per Day Up to 90 TBW (Terabytes Written)
<b>Temperature Specification</b>	Operating: 0 to 70° C Non-Operating <sup>9</sup> : -10 to 85° C Temperature monitoring
<b>Weight</b>	2280-S1-B-M: up to TBD
<b>Shock:</b>	1500 G/0.5m/sec
<b>Vibration</b>	Operating: 2.17 GRMS (5-800Hz) Non-Operating: 3.13 GRMS (5-800Hz)
<b>Altitude (Simulated)</b>	Operating: -1,000 ft to 10,000 ft Non-Operating: -1,000 ft to 40,000 ft
<b>Product Ecological Compliance</b>	RoHS

#### NOTES:

1. See LBA count for actual end user densities, Intel® Optane™ Memory and SSD have separate LBA counts
2. Performance values vary by capacity and form factor
3. Performance specifications apply to both compressible and incompressible data
4. MB/s = 1,000,000 bytes/second
5. 4KB = 4,096 bytes; 8 KB = 8,192 bytes
6. Intel® Optane™ Memory requires specific hardware configuration and Intel® Rapid Storage Technology driver
7. Power values vary by capacity and form factor
8. Please contact your Intel representative for details on the non-operating temperature range

### *Technical Specifications*

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### Technical Specifications

Change Log	
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