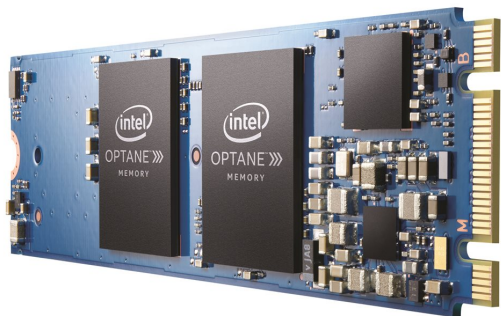


Intel Optane Memory Series - SSD - 16 GB - PCIe 3.0 x2 (NVMe)



29-05-2024

SKU	MEMPEK1W016GAXT
Product Description:	Intel Optane Memory Series - SSD - 16 GB - PCIe 3.0 x2 (NVMe)
Type:	Solid state drive - internal
Capacity:	16 GB
NAND Flash Memory Type:	20nm
Form Factor:	M.2 2280
Interface:	PCIe 3.0 x2 (NVMe)
Features:	Intel Rapid Storage Technology, Temperature Monitoring and Logging, End-to-end data protection, Rapid Start Technology, 3D XPoint Technology



General

Device Type:	Solid state drive - internal
Capacity:	16 GB
NAND Flash Memory Type:	20nm
Form Factor:	M.2 2280
Interface:	PCIe 3.0 x2 (NVMe)
Features:	Intel Rapid Storage Technology, Temperature Monitoring and Logging, End-to-end data protection, Rapid Start Technology, 3D XPoint Technology
Height:	1.5 mm
Weight:	40 g

Performance

SSD Endurance:	182.5 TB
Internal Data Rate:	900 MBps (read) / 145 MBps (write)
4KB Random Read:	190000 IOPS
4KB Random Write:	35000 IOPS
Average Latency:	7 µs

Reliability

MTBF:	1,600,000 hours
Non-Recoverable Errors:	1 per 10 ¹⁵

Environmental Parameters

Min Operating Temperature:	0 °C
Max Operating Temperature:	70 °C
Shock Tolerance (operating):	1500 g @ 0.5 ms
Shock Tolerance (non-operating):	1500 g @ 0.5 ms
Vibration Tolerance (operating):	2.17 g @ 5-800 Hz
Vibration Tolerance (non-operating):	3.13 g @ 5-800 Hz

Manufacturer Warranty

Service & Support:	Limited warranty - 5 years
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Miscellaneous

Compliant Standards:	RoHS
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Software & System Requirements

OS Required:	Windows 10 64-bit Edition
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Power

Power Consumption:	1 Watt (idle) ; 3.5 Watt (active)
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Expansion & Connectivity

Interfaces:	1 x PCI Express 3.0 x2 (NVMe) - M.2 Card
Compatible Bay:	M.2 2280