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Intel DC P3700 (SSDPE2MD016T401)

1.6TB, Intel 20nm MLC NAND Flash Memory, 6.35 cm (2.5 ") , PCIe Gen3 X4

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Price details:

Price excl. VAT: 2,473.50 €
Eco fees: 0.00 €
VAT 21 %: 519.44 €

Product details:

Product code: SSDPE2MD016T401
EAN: 0735858276405
Manufacturer: Intel

2,992.94 €

* VAT included

Breakthrough performance

The Intel Solid-State Drive Data Center Family for PCIe brings extreme data throughput directly to Intel Xeon processors with up to six times faster data transfer speed than 6 Gbps SAS/SATA SSDs. The performance of a single drive from the Intel SSD Data Center Family for PCIe, specifically the Intel Solid-State Drive Data Center P3700 Series (460K IOPS), can replace the performance of 7 SATA SSDs aggregated through a host bus adapter (HBA) (approximately 500K IOPS).

Modernizes data center storage

Intel led the industry in creation of a new Non-Volatile Memory Express (NVMe) storage interface standard. NVMe overcomes SAS/SATA SSD performance limitations by optimizing hardware and software to take full advantage of NVM SSD technology.

Comprehensive solution

Intel is driving transition to NVMe SSDs by providing a comprehensive product line, enabling extensive system compatibility, delivering Intel drivers as well as supporting industry driver development, and completing numerous industry standard compliance certifications.

Proven quality and reliability

Intel SSD Data Center Family for PCIe devices are based on Intel-developed controller, firmware, and leading manufacturing process NAND flash memory. Rigorous qualification and compatibility testing ensures a highly reliable SSD. The Intel SSD Data Center Tool provides a powerful set of management capabilities.

Main specifications:

Performance

Solid-state drive capacity:	1600 GB
Solid-state drive interface:	PCI Express 3.0
Read speed:	2800 MB/s
Write speed:	1900 MB/s
Memory type:	MLC
Lithography:	20 nm
PCI Express interface data lanes:	x4
Random read (4KB):	450000 IOPS
Random write (4KB):	150000 IOPS
Random read (8KB):	290000 IOPS
Random write (8KB):	75000 IOPS
Random read (100% span):	450000 IOPS
Random write (100% span):	150000 IOPS

Latency (read):	20 µs
Latency (write):	20 µs
Wi-Fi:	N
Enhanced Power Loss Data Protection technology:	Y
Intel High Endurance Technology (HET):	Y
SSD temperature monitoring:	Y
SSD ARK ID:	79619
Mean time between failures (MTBF):	2000000 h

Design

Internal:	Y
SSD form factor:	2.5"
Colour of product:	Grey
RoHS compliance:	Y
Certification:	UL, CE, C-Tick, BSMI, KCC, Microsoft WHQL, VCCI
Product family:	Data center SSD
Product series:	Intel DC P3700
Product codename:	Fultondale

Power

Power consumption (idle):	4 W

Operational conditions

Operating temperature (T-T):	0 - 35 °C
Storage temperature (T-T):	-55 - 95 °C
Operating shock:	1000 G
Operating vibration:	2.17 G
Non-operating vibration:	3.13 G
Maximum operating altitude:	3048 m
Maximum non-operating altitude:	12192 m

Technical details

Product type:	19
Born on date:	Q2'14
Drive capacity:	1600 GB
Launch date:	2014-06-03T00:00:00
Market segment:	SRV
Product brief URL:	http://www.intel.com/content/dam/www/public/us/en/documents/product-briefs/intel-ssd-dc-family-for-pcie-brief.pdf
Product name:	Intel SSD DC P3700 Series (1.6TB, 2.5in PCIe 3.0, 20nm, MLC)
SSD endurance rating:	43.8 PBW (JEDEC Workload), 15 DWPD
SSD interface:	PCIe NVMe 3.0 x4
SSD power consumption (active):	22W (write), 10W (read)
SSD power consumption (idle):	4W
SSD shock:	1000G/0.5msec
SSD weight:	125gm
Sequential reading:	2800 MB/s
Sequential writing:	1900 MB/s
Status:	Launched

Weight & dimensions

Height:	15 mm
Weight:	125 g

Other features

Processor lithography:	20 nm
Uncorrectable Bit Error Rate (UBER):	less than 1 sector per 1e17 bits read