

Intel SSDPEDMX012T701 internal solid state drive Half-Height/Half-Length (HH/HL) 1.2 TB PCI Express



Brand : Intel

Product code: SSDPEDMX012T701

Product name : SSDPEDMX012T701

SSD DC P3520 Series (1.2TB, 1/2 Height PCIe 3.0 x4, 3D1, MLC)

[Intel SSDPEDMX012T701 internal solid state drive Half-Height/Half-Length \(HH/HL\) 1.2 TB PCI Express:](#)

Speed with which the device is able to retrieve data that forms one contiguous, ordered block of data. Measured in MB/s (MegaBytes per Second)

Speed with which the SSD is able to retrieve data from arbitrary locations in the memory, across the entire span of the drive. Measured in IOPS (Input/Output Operations Per Second)

Enhanced Power Loss Data Protection prepares the SSD for unexpected system power loss by minimizing data in transition in temporary buffers, and uses on-board power-loss protection capacitance to provide enough energy for the SSD firmware to move data from the transfer buffer and other temporary buffers to the NAND, thus protecting system and user data.

Intel SSDPEDMX012T701. SSD capacity: 1.2 TB, SSD form factor: Half-Height/Half-Length (HH/HL), Read speed: 1700 MB/s, Write speed: 1300 MB/s

| Features | | Brand-specific features | |
|--|------------------------------------|---------------------------------------|-----------------------------|
| SSD form factor * | Half-Height/Half-Length (HH/HL) | Intel High Endurance Technology (HET) | ✗ |
| SSD capacity * | 1.2 TB | Operational conditions | |
| Interface * | PCI Express | Operating temperature (T-T) | 0 - 55 °C |
| Read speed | 1700 MB/s | Maximum operating temperature | 55 °C |
| Write speed | 1300 MB/s | Operating vibration | 2.17 G |
| Random read (100% span) | 320000 IOPS | Non-operating vibration | 3.13 G |
| Random write (100% span) | 26000 IOPS | Operating shock | 1000 G |
| Read latency | 20 µs | Non-operating shock | 1000 G |
| Write latency | 20 µs | Operating / non-operating shock | 1000 G/0.5msec |
| PCI Express interface data lanes | x4 | Weight & dimensions | |
| End-to-End Data Protection | ✓ | Weight | 190 g |
| Enhanced Power Loss Data Protection technology | ✓ | Logistics data | |
| SSD temperature monitoring | ✓ | Harmonized System (HS) code | 84717070 |
| Temperature monitoring and logging | ✓ | Other features | |
| Uncorrectable Bit Error Rate (UBER) | < 1 per 10 ¹⁷ bits read | Internal | ✓ |
| Mean time between failures (MTBF) | 2000000 h | Drive capacity | 1.2 TB |
| TBW rating | 1480 | Launch date | Q3'16 |
| Market segment | Server | SSD endurance rating | 1480 TBW |
| SSD usage tag | Data center | SSD hardware encryption | AES 256 bit |
| SSD ARK ID | 88722 | SSD power consumption (active) | Avg. 11W (Write), 9W (Read) |
| Power | | SSD power consumption (idle) | 4W |
| Power consumption (read) | 9 W | SSD shock | 1000 G/0.5msec |
| Power consumption (write) | 11 W | Sequential reading | 1700 MB/s |
| Power consumption (idle) | 4 W | Sequential writing speed | 1300 MB/s |
| | | Status | Launched |
| | | Last change | 63903513 |
| | | Product family | Data center SSD |
| | | Product series | Intel® SSD DC P3520 Series |
| | | Product codename | Pleasantdale |



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