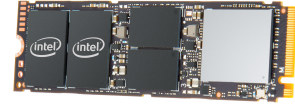


# Intel SSDPEKKA512G801 internal solid state drive M.2 512 GB PCI Express 3.1 3D TLC NVMe

**Brand :** Intel

**Product code:** SSDPEKKA512G801

**Product name :** SSDPEKKA512G801



512GB, M.2, PCI Express 3.1, NVMe, 3D TLC

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## Hardware Encryption

Hardware encryption is data encryption done at the drive level. This is used to ensure that the data stored on the drive is secured from unwanted intrusion.

## Temperature Monitoring and Logging

Temperature Monitoring and Logging uses an internal temperature sensor to monitor and log airflow and device internal temperature. The logged results can be accessed using the SMART command.  
 Intel SSDPEKKA512G801. SSD capacity: 512 GB, SSD form factor: M.2, Read speed: 2550 MB/s, Write speed: 550 MB/s, Component for: Server/workstation

Features		Brand-specific features	
Security algorithms	256-bit AES	Intel Smart Response Technology version	0.00
SSD form factor *	M.2	<b>Operational conditions</b>	
SSD capacity *	512 GB	Operating temperature (T-T)	0 - 70 °C
Interface *	PCI Express 3.1	Maximum operating temperature	70 °C
Memory type *	3D TLC	Operating vibration	2.17 G
NVMe *	✓	Non-operating vibration	3.13 G
Component for *	Server/workstation	Operating shock	1000 G
Hardware encryption *	✓	Non-operating shock	1000 G
Read speed	2550 MB/s	Operating / non-operating shock	1000 G/0.5 ms
Write speed	550 MB/s	<b>Weight &amp; dimensions</b>	
Random read (4KB)	219000 IOPS	Width	22 mm
Random write (4KB)	11400 IOPS	Height	80 mm
Random read (100% span)	219000 IOPS	Weight	10 g
Random write (100% span)	11400 IOPS	<b>Logistics data</b>	
End-to-End Data Protection	✗	Harmonized System (HS) code	8471706000
Enhanced Power Loss Data Protection technology	✗	<b>Other features</b>	
SSD temperature monitoring	✓	Drive capacity	512 GB
Temperature monitoring and logging	✓	Launch date	Q3'18
Uncorrectable Bit Error Rate (UBER)	< 1 per 10 <sup>15</sup> bits read	SSD hardware encryption	AES 256 bit
Mean time between failures (MTBF)	1600000 h	SSD power consumption (active)	5.0W
Market segment	Server	SSD power consumption (idle)	0.7W
SSD ARK ID	148626	SSD shock	1000 G/0.5 ms
<b>Power</b>		SSD weight	10 g
Power consumption (read)	5 W	Sequential reading	2550 MB/s
Power consumption (write)	5 W	Sequential writing speed	550 MB/s
Power consumption (idle)	0.7 W	Status	Launched
<b>Brand-specific features</b>		Last change	63903513
Intel High Endurance Technology (HET)	✗	Intel Rapid Start Technology version	0.00
Intel® Rapid Start Technology	✗	Remote Secure Erase (RSE) technology version	0.00
Intel® Remote Secure Erase	✗	Product family	Data center SSD
Intel® Smart Response Technology	✗	Product series	Intel® SSD DC P4101 Series
		Product codename	Harris Harbor



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