

# Intel Consumer SSDPEKNW020T8X1 internal solid state drive M.2 2.05 TB PCI Express 3.0 3D2 QLC NVMe

**Brand :** Intel

**Product family:** Consumer

**Product code:**  
SSDPEKNW020T8X1

**Product name :**  
SSDPEKNW020T8X1



- 2048 GB Capacity
- M.2 22 x 80mm Form Factor
- PCIe NVMe 3.0 x4 Interface
- 2048 GB, M.2, PCI Express 3.0, NVMe, 3D2 QLC, Retail

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## Intel® Smart Response Technology

Intel® Smart Response Technology combines the fast performance of a small solid state drive with the large capacity of a hard disk drive.

## 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.

## End-to-End Data Protection

End-to-End Data Protection ensures integrity of stored data from the computer to the SSD and back.

## Intel® Rapid Start Technology

Intel® Rapid Start Technology allows quick system resumes from the hibernate state.

Intel Consumer SSDPEKNW020T8X1. SSD capacity: 2.05 TB, SSD form factor: M.2, Component for: Server/workstation

Features		Brand-specific features	
Security algorithms	256-bit AES	Intel® Rapid Start Technology	✓
SSD form factor *	M.2	Intel® Remote Secure Erase	✗
SSD capacity *	2.05 TB	Intel® Smart Response Technology	✓
Interface *	PCI Express 3.0	<b>Operational conditions</b>	
Memory type *	3D2 QLC	Operating temperature (T-T)	0 - 70 °C
NVMe *	✓	Maximum operating temperature	70 °C
Component for *	Server/workstation	Operating vibration	2.17 G
Hardware encryption *	✓	Non-operating vibration	3.13 G
PCI Express interface data lanes	x4	Operating shock	1000 G
End-to-End Data Protection	✓	Non-operating shock	1000 G
Enhanced Power Loss Data Protection technology	✗	Operating / non-operating shock	1000 G
SSD temperature monitoring	✗	<b>Weight &amp; dimensions</b>	
Temperature monitoring and logging	✗	Width	22 mm
Uncorrectable Bit Error Rate (UBER)	< 1 per 10 <sup>15</sup> bits read	Depth	80 mm
Mean time between failures (MTBF)	1600000 h	Weight	10 g
TBW rating	400	<b>Logistics data</b>	
Market segment	Mobile	Harmonized System (HS) code	84717070
SSD ARK ID	149403	<b>Other features</b>	
Export Control Classification Number (ECCN)	5A992C	Power consumption (active)	0.1 W
Commodity Classification Automated Tracking System (CCATS)	G158436	Launch date	Q3'18
		Random write (8GB span)	220000 IOPS
		SSD endurance rating	400 TBW
		SSD power consumption (idle)	0.040W

Power		Other features	
Power consumption (read)	0.1 W	SSD shock	1000 G
Power consumption (write)	0.1 W	Sequential reading	1800 MB/s
Power consumption (idle)	0.04 W	Sequential writing speed	1800 MB/s
Brand-specific features		Status	Launched
Intel High Endurance Technology (HET)	✘	Random read (8GB span)	220000 IOPS
		Product series	Intel® SSD 660p Series
		Product codename	Neptune Harbor



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