

Apacer Z280 General Product Specifications

Specifications				
Interface	PCI Express 3.0 x 4			
Capacity ¹	120 GB ,240 GB, 480 GB			
NAND	MLC NAND Flash			
Form Factor	M.2 2280-D5-M			
Performance ²		120GB	240 GB	480 GB
	Sequential Read (MB/s)	2,300	2,750	2,750
	Sequential Write (MB/s)	1,450	1,500	1,500
Power Consumption ³ (unit: mW)		120GB	240 GB	480 GB
	Active	4,440	4,890	5,110
	Idle	400	400	400
Operating Voltage	3.3V ± 5%			
P/E Cycles	3,000 cycles			
Dimensions	80.00 (L) x 22.00 (W) x 3.80 (H), unit: mm			
ECC	Up to 120 bits per 2K Byte data			
Flash Management	Bad block management, TRIM, wear leveling, S.M.A.R.T., over provision			
Security	Secure erase, write protect			
MTBF	> 2,000,000 hours (approx.)			
Endurance ⁴		120GB	240 GB	480 GB
	TBW	175	349	698
Temperature	Operating	0°C to 70°C		
	Storage	-55 to 150°C		
Shock ⁵	Sine, 3.13G, 5~800Hz			
Vibration ⁵	Half sine, 1500G/1.0msec			
Warranty	3 years			
Package	Retail package			
Certifications	RoHS, CE, FCC, VCCI			

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¹ Unformatted. Theoretically, 1GB=1,000,000,000 Bytes. Under operating systems, the capacity might appear to be less than the theoretical capacity because the calculation in OS is based on 1 GB = 1024 MB / 1MB =1024KB and a minority of the capacity is reserved for maintenance purposes.

² Performance results may vary from flash configurations or host system settings. Test results are based on ATTO platform.

³ Power consumption were measured at 3.3V and results may vary from flash configurations or host system settings.

⁴ Estimated under typical PC user behaviors, NAND endurance cycles, write amplification and wear leveling factors.

⁵ Shock and vibrations are subject to change without notice.

PCIe SSD Z280

Ordering Information

Capacity	Distributor/Retailer
120GB	86.F0120.EFN0C / AP120GZ280-1
240GB	86.F0240.MFN0C / AP240GZ280-1
480GB	86.F0480.MFN0C / AP480GZ280-1

Revision History

Version	Description	Date
1.0	Official release	4/14/2016
1.1	Added a product image	6/7/2016
1.2	Added Internal P/N	11/01/2016
1.3	Added Internal P/N	04/10/2017