

Black Diamond Series INDUSTRIAL SSD

Specifications

Appearance	Dimensions	80.0 mm x 23.1 mm x 9.2 mm (3.15" x 0.9" x 0.36")
	Weight	34 g (1.19 oz)
	Form Factor	M.2 2280
Interface	Bus Interface	NVMe PCIe Gen4 x4
Storage	Capacity	512 GB / 1 TB / 2 TB / 4 TB
	Flash Type	3D NAND flash
Operating Environment	Operating Voltage	3.3V±5%
	Operating Temperature	Normal Temp. : 0°C ~ 70°C Middle Rang Temp. : -20°C ~ 75°C Wide Temp. : -40°C ~ 85°C
	Storage Temperature	-55°C (-67°F)~85°C (185°F)
	Humidity	5% ~ 95%
	Shock	1500 G, 0.5 ms, 3 axis
	Vibration (Operating)	20 G (peak-to-peak), 7 Hz ~ 2000 Hz (frequency)
Power	Power Consumption (Operation)	3.3 watt(s)
	Power Consumption (Sleep)	0.5 watt(s)
Performance	Sequential Read/Write (CrystalDiskMark)	4 TB: 7,500/6,700 MB/s 2 TB: 7,100/6,500 MB/s 1 TB: 7,200/6,200 MB/s 512GB: 5,200/6,200 MB/s
	4K Random Read/Write (IOMeter)	4 TB: 540,000/440,000 IOPS 2 TB: 530,000/420,000 IOPS 1 TB: 530,000/420,000 IOPS 512GB: 320,000/420,000 IOPS
	Terabytes Written (TBW)	4 TB: 3120 TBW 2 TB: 1560 TBW 1 TB: 780 TBW 512GB: 780 TBW
	Mean Time Between Failures (MTBF)	3,000,000 hour(s)
	Drive Writes Per Day (DWPD)	0.3 (3 yrs)
	Certificate	CE / FCC / UKCA
Warranty	Warranty	4-years Warranty

Product specifications are subject to change without notice. Pictures shown may differ from actual products. Total accessible capacity varies depending on operating environment. Due to the complexity and variety of industrial applications, KingFast cannot guarantee 100% compatibility with all platforms and under all scenarios. For special applications and environments, it is strongly suggested that you contact KingFast beforehand for clarification.