

## Enterprise SSD

THNSNJ480PCS3 / THNSNJ240PCS3 / THNSNJ120PCS3 ( HK3R Series )

	THNSNJ480PCS3	THNSNJ240PCS3	THNSNJ120PCS3
<b>Basic Specifications</b>			
Interface	SATA-3.1		
Interface Speed	6.0 Gbit/s , 3.0 Gbit/s , 1.5 Gbit/s		
Memory Type	MLC		
Formatted Capacity	480 GB	240 GB	120 GB
Sustained 64KiB Sequential Read	500 MiB/s		
Sustained 64KiB Sequential Write	400 MiB/s		270 MiB/s
Sustained 4KiB Random Read	75,000 IOPS		
Sustained 4KiB Random Write	12,000 IOPS		8,500 IOPS
<b>Reliability</b>			
MTTF	2,000,000 hours		
Warranty	3 years		
DWPD	1		
<b>Power Requirements</b>			
Supply Voltage	5 V $\pm$ 5 %		
Power Consumption ( Operating )	4.5 W Typ.		
Power Consumption ( Ready )	1.0 W Typ.		
<b>Dimensions</b>			
Height	7.0 mm +0, -0.5 mm		
Width	69.85 $\pm$ 0.25 mm		
Length	100.45 mm Max.		
Weight	60 g Max.		
<b>Environmental Specifications</b>			
Temperature ( Operating )	0 to 55° C		
Relative Humidity ( Operating )	5 to 95 % R.H.		
Vibration ( Operating )	21 m/s <sup>2</sup> { 2.17 Grms } ( 100 to 800 Hz )		
Shock ( Operating )	9,800 m/s <sup>2</sup> { 1,000 G } ( 0.5 ms duration )		

- ▶ Product image may represent a design model.
- ▶ Definition of capacity: Toshiba defines a megabyte (MB) as 1,000,000 bytes, a gigabyte (GB) as 1,000,000,000 bytes and a terabyte (TB) as 1,000,000,000,000 bytes. A computer operating system, however, reports storage capacity using powers of 2 for the definition of 1GB = 2<sup>30</sup> = 1,073,741,824 bytes and therefore shows less storage capacity. Available storage capacity (including examples of various media files) will vary based on file size, formatting, settings, software and operating system, such as Microsoft Operating System and/or pre-installed software applications, or media content. Actual formatted capacity may vary.
- ▶ A kibibyte (KiB) means 2<sup>10</sup>, or 1,024 bytes, a mebibyte (MiB) means 2<sup>20</sup>, or 1,048,576 bytes, and a gibibyte (GiB) means 2<sup>30</sup>, or 1,073,741,824 bytes.
- ▶ MTTF (Mean Time to Failure) is not a guarantee or estimate of product life; it is a statistical value related to mean failure rates for a large number of products which may not accurately reflect actual operation. Actual operating life of the product may be different from the MTTF.
- ▶ DWPD: Drive Write Per Day. One full drive write per day means the drive can be written and re-written to full capacity once a day every day for five years, the stated product warranty period. Actual results may vary due to system configuration, usage and other factors.
- ▶ Read and write speed may vary depending on the host device, read and write conditions, and file size.
- ▶ IOPS: Input Output Per Second (or the number of I/O operations per second)
- ▶ "2.5-inch" and "3.5-inch" mean the form factor of HDDs or SSDs. They do not indicate drive's physical size.