
4.0 TByte, 3.5-inch, 7,200 rpm Disk Drive Specification

6Gb SAS-2 Interface

Disk Drive Installation

For information on how to install your disk drive, refer to your system or drive enclosure documentation.

See "[Related Documentation](#)" on the back page if you need to order any documentation.

The Disk Drive Bracket Assembly consists of the disk drive assembled within the bracket assembly.

The Disk Drive Bracket Assembly should not be disassembled for any reason by the user.

Power Requirements

Activity	+5 VDC (5%)	12 VDC (5%)
Motor start (Surge Current, 20 seconds)	0.60 A	2.40 A
Max I/O Conditions (Amp. rms)	1.30 A	2.20 A

Physical Characteristics (Drive only, excluding bracket)

Height (max)	Width (max)	Depth (max)	Weight
1.028 in.	3.750 in. +/- .010	5.787 in.	1.760 lb
26.10 mm	101.6 mm +/- .25	147 mm	.800 kg

Usage Information

Useful Life	Minimum five years
Expected AFR (Annualized Failure Rate)	.44% for normal, 24x7 operating conditions
Normal Drive Temperatures	5 degC to 45 degC De-rating of AFR Applies above 45 degC
Maximum Temperature	55 degC maximum sustained temperature Drive may be rendered unusable above 60 degC
Other Environmental Factors	Conforms to IEC Standards

Performance

Attribute	Value
Capacity, formatted	4,000,787,030,016 bytes minimum (512 bytes per sector)
Rotational latency	
Average	4.17 msec (7,200 RPM)
Seek times (read/write)	(Typical)
Single track seek	8/1 msec
Average seek	8.5/9.5 msec
Maximum seek	15.1/16.1 msec
Random 2KB Reads Per Second	(Typical)
Queue=1, 100% Volume	82/78 (read/write) IOPs
Queue=32, 100% Volume	187/159 (read/write) IOPs
HDA data transfer rate (Typical)	
Sustained Sequential Read	85 MB/sec (at ID) to 165 MB/sec (at OD)
Interface data transfer rate	6Gb/3Gb/1.5Gb per sec. auto negotiation Dual Port, Full Duplex
Maximum instantaneous	638 Mbytes per sec (6Gb mode)
Start/stop	
Power up to ready	25 sec typical
Spin down	30 sec typical

Related Documentation

Documentation for this product is available at:

<http://www.oracle.com/documentation>

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