



2.0 TByte, 3.5", 7,200 rpm Disk Drive Specification

3Gb SATA-2 Interface

Disk Drive Installation

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

See "[Accessing Sun 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, 20sec)	1.2 A	2.0 A
Max I/O Conditions (Amp. rms)	1.0 A	2.0 A

Physical Characteristics (Drive only, excluding bracket)

Height (max)	Width (max)	Depth (max)	Weight
0.591 in	2.760 in	3.957 in	1. 68 lb
15.1 mm	70.10 mm	100.5 mm	0.74 kg

Usage Information

Usage	Description
Shelf Life	Drive must be powered on at least once every six months.
Useful Life	Minimum five years.
Expected AFR (Annualized Failure Rate)	0.73% for normal, 24x7 operating conditions.
Normal Drive Temperatures	5 degC to 45 degC. Derating of AFR applies above 45 degC.
Maximum Temperature	55 degC maximum sustained temperature. Drive may be rendered unusable above 65degC.
Other Environmental Factors	Conforms to IEC Standards.

Performance

Attribute	Value
Capacity, formatted	2000,398,934,016 bytes minimum (512 bytes per sector)
Rotational latency	
Average	4.17 msec (7,200 RPM)
Seek times (read/write)	(Typical)
Single track seek	0.6 mSec/0.9 mSec
Average seek	8.2 mSec/9.2 mSec
Maximum seek	14.7 mSec/15.7 mSec
Random 2KB Reads Per Sec	(Typical)
Queue=1, 100% Volume	75 IOPs
Queue=32, 100% Volume	120 IOPs
HDA data transfer rate	(Typical)
Sustained Sequential Read	70 MB/sec (at ID) to 130 MB/sec (at OD)
Interface data transfer rate	3Gb/1.5Gb per sec. auto negotiation
Start/stop	(Typical)
Power up to ready	20 sec
Spin down	20 sec

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