



400 GB, 3.5-inch, 10,000 rpm FC Disk Drive Interface (4Gb-AL4)

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 Requirement

| Activity | +5 VDC ($\pm 5\%$) | +12 VDC ($\pm 7\%$) |
|--------------------------------|----------------------|-----------------------|
| Motor start max | 0.90 A | 1.82 A |
| Typical Operating (Random IOs) | 0.81 A | 0.67 A |

Physical Characteristics (Drive only, excluding bracket)

| Height | Width | Depth | Weight |
|---------------|---------------|---------------|--------------|
| 1.028 in. max | 4.01 in. max | 5.787 in. max | 1.85 lb max |
| 26.1 mm max | 101.85 mm max | 147.0 mm max | 0.839 kg max |

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) | 0.63% for normal, 24x7 operating conditions |

Performance

| Attribute | Value |
|--------------------------------------|---|
| Capacity, formatted | 400,000,000,000 bytes minimum (512 bytes per sector) |
| Rotational latency | |
| Average | 2.98 msec |
| Seek times (read/write) | |
| Single track seek | 0.45 msec |
| Average seek | 3.9 msec / 4.2 msec |
| Maximum seek | 7.9 msec |
| Random 2KB Reads Per Sec (Typical) | |
| Queue=1, 100% Volume | 125 IOPs |
| Queue=32, 100% Volume | 300 IOPs |
| HDA data transfer rate | |
| Disk to read buffer | 725 MB/sec (at ID) to 1,211 MB/sec (at OD) |
| Interface data transfer rate | |
| Maximum instantaneous | 412 Mbytes per sec (Dual Port) |
| Start/stop | |
| Power up to ready | 30 sec typical |
| Spin down | 30 sec maximum |

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

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