

High performance and capacity in a small form factor (SFF) drive.

# 2.5-Inch, SAS

## 10K SFF Enterprise Hard Disk Drives

MAY2036RC • MAY2073RC

State-of-the-art hard drives for your most demanding enterprise applications.

- ▶ 2.5-inch RoHS compliant enterprise hard disk drives offer 10K RPM spindle speed and feature storage capacities up to 73GB<sup>1</sup>
- ▶ Mean-time-between-failure (MTBF) of 1,400,000 power-on hours
- ▶ The industry's first 2.5-inch small form factor Serial Attached SCSI (SAS) interface
- ▶ Native Command Queuing (NCQ), providing faster execution of operation commands
- ▶ Uses smaller connectors and cables than U320, a benefit acknowledged by the SCSI Trade Association (STA)

<sup>1</sup> One gigabyte (GB) = one billion bytes; accessible capacity will be less and actual capacity depends on the operating environment and formatting.



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With more than 35 years of experience in hard disk drive technology, Fujitsu can offer state-of-the-art products for your most demanding enterprise applications. Case in point: Our top-of-the-line 2.5-inch SAS enterprise hard disk drives.

Their availability makes Fujitsu the first to bring small form factor SAS drives to the enterprise market, reflecting a determination and confidence in the new technology we have championed.

As a point-to-point connection, Fujitsu SAS hard disk drives help enterprises develop new solutions and maintain flexibility. The RoHS compliant, 2.5-inch hard disk drives offer up to 73.5GB of storage and 10K RPM — a perfect combination for high-end, mission-critical applications residing on database servers, storage arrays, and NAS and SAN systems.

With the 2.5-inch form factor, a greater number of SAS hard disk drives can be installed in the space previously occupied by conventional 3.5-inch enterprise products, resulting in improved input-output (IO) performance. Additionally, lower power consumption helps systems maintain reduced heat levels. The hard disk drives are also hot pluggable, so they can be inserted or removed without harming the data or the system while the entire system is still powered on.

The 3Gb SAS interface of the Fujitsu hard disk drives allows customers to take advantage of the increased performance associated with serial attached SCSI, while at the same time providing lower heat dissipation and lower acoustics.

If you have enterprise storage needs, Fujitsu can deliver.

### About Fujitsu Computer Products of America, Inc.

Fujitsu Computer Products of America, Inc. is a subsidiary of Fujitsu Limited, a leading provider of customer-focused IT and communications solutions for the global marketplace. FCPA provides innovative solutions for the U.S. marketplace. Current product and service offerings include high performance hard disk drives, Magneto-Optical drives, scanners and scanner maintenance, palm vein recognition technology, 10Gb Ethernet switches and degaussers.

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| 2.5-Inch, SAS 10K RPM Series Hard Disk Drive Specifications |                                 |  |
|---|---------------------------------|--|
| Description   | MAY2036RC                       | MAY2073RC                                  |
| <b>Functional Specifications</b>                            |                                 |  |
| Storage capacity (formatted) <sup>1</sup>                   | 36.7GB                          | 73.5GB                                     |
| Disks   | 1                               | 2  |
| Heads (read/write)  | 2                               | 4  |
| Bytes/sector  | 512                             |  |
| Seek time   | Track to track                  | Read: 0.2 ms (typ) / Write: 0.4 ms (typ)   |
|   | Average                         | Read: 4.0 ms (typ) / Write: 4.5 ms (typ)   |
|   | Full stroke                     | Read: 8.0 ms (typ) / Write: 9.0 ms (typ)   |
| Average latency   | 2.99 ms                         |  |
| Rotational speed (RPM)                                      | 10,025 rpm                      |  |
| Areal density   | 70.2 Gbits/sq. in. (max.)       |  |
| Data transfer rate  | 3Gbps                           |  |
| Recording code  | 32/34 MEEPRML                   |  |
| Interface   | SAS                             |  |
| Head positioning method                                     | Rotary VCM                      |  |
| Start time  | 15 s (typ)                      |  |
| Stop time   | 15 s (typ)                      |  |
| Buffer size   | 16 MB                           |  |
| <b>Physical Specifications</b>                              |                                 |  |
| Power requirements  | Voltage                         | 5 V ± 5%, 12 V ± 5%                        |
|   | Spin-up                         | 12 V ± 5% @ 1.5 A (peak)                   |
|   | Idle (typ)                      | 5 V ± 5% @ 1.2 A (peak)                    |
|   |                                 | 4.5 W                                      |
| Dimensions (HxWxD)  | 15.0 mm x 69.85 mm x 100.45 mm  |  |
| Weight  | 220 g                           |  |
| Ambient temperature   | Operating                       | 5°C to 55°C (DE base 60°C max)             |
|   | Non-operating                   | -40°C to 70°C                              |
|   | Gradient                        | 15°C/H Max                                 |
| Relative humidity   | Operating                       | 5% to 95% (non-condensing)                 |
|   | Non-operating                   | 5% to 95% (non-condensing)                 |
|   | Max. wet bulb                   | 29°C (operating)                           |
| Vibration   | Operating                       | 0.6 mm (5 to 20 Hz) / 1.0 G (20 to 300 Hz) |
|   | Non-operating                   | 3.1 mm (5 to 20 Hz) / 5.0 G (20 to 300 Hz) |
| Shock   | Operating                       | 100 G max. (1 ms)                          |
|   | Non-operating                   | 400 G max. (1 ms)                          |
| Altitude  | Operating                       | 3,000 m (max.)                             |
|   | Non-operating                   | 12,000 m (max.)                            |
| Acoustic Noise (idle sound power) (typ)                     | <= 2.9 bels (ready)             |  |
| <b>Reliability Specifications</b>                           |                                 |  |
| Mean time between failures (MTBF)                           | 1,400,000 POH                   |  |
| Component life  | 5 years POH                     |  |
| Error rates   | Seek errors                     | 10 per 10 <sup>6</sup> seeks               |
|   | Unrecoverable errors            | 1 per 10 <sup>15</sup> bits read           |
| Limited Warranty  | 5 years (from date of purchase) |  |



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