



3.5 HDD DATA SHEET

Amazing Versatility.  
Unmatched Dependability.



Seagate delivers trusted performance and reliability with the Seagate® BarraCuda® 3.5-inch HDD—now available in capacities up to 24TB.



### Best-Fit Applications

- Desktop or all-in-one PCs
- Home servers
- Entry-level direct-attached storage devices (DAS)

## Key Advantages

**Versatile** HDDs for all your PC needs bring you industry-leading excellence in personal computing.

**Built on proven reliability and innovation** the BarraCuda family has delivered trustworthy storage solutions for the hard drive industry

**.Capacities up to 24TB** for desktops, BarraCuda leads the market with the widest range of storage options available.

**Advanced Power** modes help save energy without sacrificing performance.<sup>1</sup>

**SATA 6Gb/s** interface optimizes burst performance.<sup>1</sup>

<sup>1</sup> Performance may vary depending on user's hardware configuration and operating system.



| Specifications                                | 24TB               | 20TB               | 16TB               |
|-----------------------------------------------|--------------------|--------------------|--------------------|
| Standard Model Number                         | ST24000DM001       | ST20000DM001       | ST16000DM001       |
| Bytes per Sector                              | 512e               | 512e               | 512e               |
| Performance                                   |                    |                    |                    |
| Interface                                     | SATA 6Gb/s         | SATA 6Gb/s         | SATA 6Gb/s         |
| SATA Transfer Rates Supported (Gb/s)          | 6.0/3.0/1.5        | 6.0/3.0/1.5        | 6.0/3.0/1.5        |
| Max Sustained Data Rate, OD Read (MB/s)       | 190MB/s            | 190MB/s            | 190MB/s            |
| Cache, Multisegmented (MB)                    | 512MB              | 512MB              | 512MB              |
| Rotational Speed (RPM)                        | 7200RPM            | 7200RPM            | 7200RPM            |
| Recording Technology                          | CMR                | CMR                | CMR                |
| Reliability/Data Integrity                    |                    |                    |                    |
| Load/Unload Cycles                            | 600,000            | 600,000            | 600,000            |
| Nonrecoverable Read Errors per Bits Read, Max | 1 sector per 10E14 | 1 sector per 10E14 | 1 sector per 10E14 |
| Power-On Hours (per year)                     | 2400               | 2400               | 2400               |
| Workload Rate Limit (TB/Year)                 | 120                | 120                | 120                |
| Warranty, Limited (years)                     | 2                  | 2                  | 2                  |
| Power Management                              |                    |                    |                    |
| Startup Power (A)                             | 2.0A               | 2.0A               | 2.0A               |
| Operating Mode, Typical (W)                   | 8.9W               | 8.9W               | 8.9W               |
| Idle Average (W)                              | 6.7W               | 6.7W               | 6.7W               |
| Standby Mode/Sleep Mode, Typical (W)          | 1.2 W              | 1.2 W              | 1.2 W              |
| Voltage Tolerance, Inc. Noise (5V)            | ±5%                | ±5%                | ±5%                |
| Voltage Tolerance, Inc. Noise (12V)           | ±10%               | ±10%               | ±10%               |
| Environmental/Temperature                     |                    |                    |                    |
| Operating (drive reported, min)               | 10°C               | 10°C               | 10°C               |
| Operating (drive reported, max)               | 60°C               | 60°C               | 60°C               |
| Nonoperating (ambient)                        | -40°C – 70°C       | -40°C – 70°C       | -40°C – 70°C       |
| Halogen Free                                  | Yes                | Yes                | Yes                |
| RoHS Compliance                               | Yes                | Yes                | Yes                |
| Physical                                      |                    |                    |                    |
| Height (mm/in, max)                           | 26.1mm/1.028in     | 26.1mm/1.028in     | 26.1mm/1.028in     |
| Width (mm/in, max)                            | 101.85mm/4.010in   | 101.85mm/4.010in   | 101.85mm/4.010in   |
| Depth (mm/in, max)                            | 147mm/5.787in      | 147mm/5.787in      | 147mm/5.787in      |
| Weight (g/lb, typical)                        | 695g/1.532lb       | 695g/1.532lb       | 695g/1.532lb       |
| Carton Unit Quantity                          | 20                 | 20                 | 20                 |
| Cartons per Pallet/Cartons per Layer          | 40 / 8             | 40 / 8             | 40 / 8             |

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