



DATA SHEET Trusted. Efficient. Versatile. **Exos 7E2** 



The Seagate<sup>®</sup> Exos<sup>™</sup> 7E2 enterprise hard drives with 1 TB and 2 TB capacities are specifically designed to address the needs of storing unstructured data cost-effectively. The traditional 512-native format with a 6 Gb/s SATA interface ensures easy integration into legacy storage servers and systems.



### **Best-Fit Applications**

- Legacy mainstream applications requiring 512n block size
- Hyperscale applications/cloud data centres with replicated storage
- Scale-out data centres and Big Data analytics
- High-capacity density RAID storage
- Mainstream enterprise external storage arrays (SAN, NAS, DAS)
- Distributed file systems, including Hadoop and Ceph
- Enterprise backup and restore D2D, virtual tape
- Centralised surveillance

### **Reliable Data Center-Grade Hard Drive Within Reach**

The Exos 7E2 hard drives support up to 2 TB per drive,<sup>1</sup> offering economical storage for traditional 512-native infrastructures requiring a highly reliable enterprise hard drive. Exos 7E2 provides the most cost-effective, reliable access to unstructured data in bulk storage applications. Built on field-proven 9th generation conventional magnetic recording (CMR) technology, the Exos 7E8 drive helps to catalyse the datasphere, enabling data centre architects and IT professionals to deliver trusted performance, rock-solid reliability, ironclad security and low TCO for demanding 24×7 operations.

### Robust Bulk Data Storage for a 24×7 World

The Exos 7E2 hard drives are proven, enterprise-class hard drives with enterprise-grade reliability backed by a 2 million hour MTBF rating. With state-of-the-art cache, on the fly error-correction algorithms and rotational vibration design, the Exos 7E2 helps ensure consistent performance in replicated and RAID multi-drive systems.

# Consistent, High Performance and Compatibility for Legacy Data Centre Applications

Meet your storage workload requirements with the most efficient and cost-effective SATA 6 Gb/s drive in a 3.5-inch data centre footprint. With user-definable innovative technology advancements like PowerChoice<sup>™</sup> and Seagate RAID Rebuild<sup>®</sup>, you can tailor your bulk storage requirements for even greater improvements in your TCO.

## Enhanced Enterprise Reliability, Data Protection and Security

The Exos 7E2 series delivers firmware security features to help protect data where it lives — on the drive. Exos 7E2 hard drives safeguard firmware with authentic Secure Downloads & Diagnostics.

1 Seagate recommends validating your configuration with your HBA/RAID controller manufacturer to ensure full capacity capabilities.





Short orderConstructCopany (************************************				
Base Model     ST2000M0008     ST1000M0000       Feators     Use Midogan     Yes       SuperTarity     Yes     Yes       Law Midogan     Yes     Yes       Reave Checkon <sup>11</sup> Tachnology     Yes     Yes       Stages PADL Readel <sup>11</sup> Cacheology     Yes     Yes       Marine Readeling Stafe Read Read Frances (Yes R)     5     5       Marine Readelings for Yes (Yes R)     5     5     5       Marine Readelings for Yes (Yes R)     5     5     5       Marine Stages Stard (Yes R)     5     5     5       Middel Markery (yes R)     7     7     7       Stard Stage (PAP)	Specifications			
Feddrag     Ves     Ves       SupP Parly     Yes     Yes       Low Halogon     Yes     Yes       Deve Chorkogy     Yes     Yes       Sagata PAAD Paabulit Technology     Yes     Yes       Carlos     139 M8     128 M8       Sadata PAAD Paabulit Technology     Yes     200000       Sadata PAAD Paabulit Starting Pathotsensity     Yes     200000       Man Time Bobeon Failure (MTBF), tecnt]     2000000     2000000       Man Time Bobeon Failure (MTBF), tecnt]     2001000     3780     3780       Powe-Christer Park (MAR)     1 seature prEETS     38708     38708       Powe-Christer Park (MAR)     5     5     38708       Park Christer Park (MAR)     5     632.0.15     5     30.0.15       Marker Marker Marker     Sadan 5     5     30.0.15 <t< td=""><td>Capacity</td><td>2 TB</td><td>1 TB</td></t<>	Capacity	2 TB	1 TB	
SpenPhy     Yes     Yes       Lan Halogan     Yes     Yes       DewChlos' Technology     Yes     Yes       Seage HAD Rebuld Technology     Yes     Yes       Soade Technology     Yes     Yes       Soade Temare Security     Yes     Yes       Cacle     138 MB     138 MB       Editation Nanoparating 101 In 500 Int (Smat)     5     5       Man Time Beener Pair ce (MTBF, Icora)     2.000.000     2.000.001       Relating Rearge Fail Ser, Operation (AFR)     0.44%     0.44%       Non-concredit Rearge Bank Max     1.800400 pr 1015     1.8002 pr 1015       Prove-On-Hours per Yes (24-7)     0.700     0.700       Prove-On-Hours per Yes (24-7)     0.700     7.00       Prove-On-Hours per Yes (24-7)     0.700     7.00       Prove-On-Hours per Yes (24-7)     0.700     7.	Base Model	ST2000NM0008	ST1000NM0008	
Ler Halogen     Yes     Yes       Pawe Choose T schwolay,     Yes     Yes       Segate NAD Redulf Technology     Yes     Yes       Sob Firmware Socurity     Yes     Yes       Sob Firmware Socurity     Yes     Yes       Cache     128 MB     128 MB       Bialatility Editation Statures     128 MB     128 MB       Wataron, Non-operating 101± to 500 Hz (Orma)     5     5       Mare Time Between Failures (MFE: Nors)     2.000,000     2.000,000       Mare Time Between Failures (MFE: Nors)     2.000,000     2.000,000       Non-recoverable Read Errors pyr Bills Road, Max     1 sector per 10815     1 sector per 10815       Power Chinkars per Vare (P&-7)     8.700     6.780       Power Chinkars per Vare (P&-7)     8.700     6.780       Power Chinkars per Vare (P&-7)     8.700     7.200       Warrank (years)     5     5       Perform Social     5.20     7.200       Warrank (years)     4.16     4.18       Average Latency (real)     4.16     4.18       Average Latency (real)     4.71	Features			
PereorDince "Technology     Yes     Yes       Sangan FAD Robuid "Tochology     Yes     Yes       Sangan FAD Robuid "Tochology     Yes     Yes       Sangan FAD Robuid "Tochology     Yes     Yes       Cache     128 M8     128 M8       Ballobality/Disk Integrity     128 M8     128 M8       Vation, Non-oparting: 10 Hz I: 5800 Hz (Orma)     5     5       Mean Time Retrieves Failures (UTEF, Yours)     2.000.000     2.000.000       Ballobality, Raing @ Fail 24-7 Oparaton (AFR)     0.44%     0.44%       Anti-covorating Read Trices pet Bit Read, Max     1 sector per UE(5     1 sector per UE(5       Entited Warrarky (years)     5     5     5       Prove-On-Uncar per Year (24-7)     8.700     8.700     8.700       Brito per Sociol     512     512     512       Limited Wararky (years)     5     5     7.200       Rothore Sociol     6.0, 3.0, 1.5     6.0, 3.0, 1.5       Max. Subiand Tractor Main (MBA)     194     4.16       Mares Subjer Regard Marroy (mb)     4.16     4.16       Instrator Avariant Carastor	SuperParity	Yes	Yes	
Bagge RAD Rebuild Technology     Yes     Yes       SDAD Finware Society     Yes     Yes       SDAD Finware Society     Yes     Yes       Stable Finware Society     Yes     Yes       Vibration: Non-operating 10Hz to SOH (Serms)     5     5       Mart Time Bebresch MTBP, hours)     2000,000     2000,000       Reliability Rating @ Full 24 /7 Operation (AFR)     0.44%     0.44%       Non-recoverable Read Errors per Bits Rout, Max     1 sector per 10E15     1 sector per 10E15       Power-On-Hourp Vera (24.7)     0.700     0.700     0.700       Spes per Societ     512     512     512       Limited Warranky (vors)     5     5     7       Socied Socied (DNA)     7.000     7.000     14       Marca Marcas Speed (DNA)     6.0.30, 15     6.0.30, 15     6.0.30, 15       Marcas Socied (DNA)     6.0.30, 15     6.0.30, 15     16       Marcas Eduration Yandan (P 1.500 Hz (radis')     125     125     125       Parta Carbona Variation (P 1.500 Hz (radis')     125     125     125       Parta Carbona Variation (P 1.500 Hz (radis	Low Halogen	Yes	Yes	
SD&D Firmware Security     Yes     Yes       Cache     128 MB     128 MB       Gache     128 MB     128 MB       Galating Galating Cale Integrity         Vibration, Non-operating: 10 Hz to 500 Hz (Crma)     5     5       Mean Time Between Failures (MTBF, hours)     2.000,000     2.000,000       Reliability Rating Per Let Ar-Operation (AFP)     0.44%,     0.44%,       Non-recoverable Read Encrars per Bits Read, Max     1 sector per 10E15     1 sector per 10E15       Prevenced     512     512     512       Linkid Warrardy (sears)     5     5     5       Partomace     7.000     7.000     1       Storide Stored (RPM)     7.000     7.000     1       Interface Access Speed (CDM)     6.0, 3.0, 1.5     6.0, 3.0, 1.5     1.6       Marcaga Laborary (ma)     4.16     4.16     1       Interface Access Speed (CDM)     7.00     7.00     1       Reliability Affring (MS)     1.94     4.16     1.15       Interface Access Speed (CDM)     4.7     1.25     Preveralobin <td>PowerChoice<sup>™</sup> Technology</td> <td>Yes</td> <td>Yes</td>	PowerChoice <sup>™</sup> Technology	Yes	Yes	
Cache     128 M8       Reliability       Variation, Non-separating: 10 M2 to 500 H2 (Grma)     5       Mean Time Between Failures (MTBF, hours)     2.000,000     2.000,000       Belakily Hadring & Full 24-7 Operation (AFR)     0.44%     0.44%       On recoverable Read Errors per Bite Read, Max     1 sector per 10515     1 sector per 10515       Power-On Hours per Year (24-7)     8,780     8,780     8,780       Bytes per Sector     5     5       Performance     7,200     7,200     7,200       Uninde Wirard by (years)     6     0.3,1,5     0.3,3,1,5       Mass Stationed Transfer Rate OD (MBs, MBs)     194     44     194       Average Laborcy (ms)     4,16     4,16     4,16       Here too Ports     Single     Single     Single       Rotational Mixedino (@ 1,500 Hz (rads <sup>1</sup> )     4,7     7     7       Power Sappy Requirements     +12 V and +5 V     +12 V and +5 V     +12 V and +5 V       Event Sappy Requirements     -14 V and +5 V     5     5       Typical Operating (*O)     5*C - 6*O*C     5*C - 6*O*C     5*C -	Seagate RAID Rebuild® Technology	Yes	Yes	
Reliability/Data Integrity     S     5       Vibration, Non-operating: 1014 to 500 Hz (Grms)     5     5       Marm Time Bowers Palures (MER ; Evans)     2.000,000     2.000,000       Reliability Raing @ Full 24-7 Operation (AFR)     0.44%     0.44%       Non-recoverable Read Errors per Bits Read, Max     1 sector per 10E15     1 sector per 10E15       Power On Hours per Year (24-7)     8,760     8,760     8,760       Price per Sector     512     512     512       Limited Warrary (vers)     5     5     5       Performance     7,200     7,200     7,200       Interface Access Space (Db1s)     6.0.3.0.1,5     6.0.3.0.1,5     16.0.3.0.1,5       Max. Sactamed Transfer Rato DO (MBs, MBits)     194     416     416       Interface Access Space (Ob1s)     6.0.3.0.1,5     10.5     10.5       Max. Sactamed Transfer Rato DO (MBs, MBits)     194     416     416       Interface Access Space (Ob1s)     6.0.3.0.1,5     10.2,5     12.5       Power Construction     12.5     Power Construction     12.5       Power Construction (of 1)     7 <td>SD&amp;D Firmware Security</td> <td>Yes</td> <td>Yes</td>	SD&D Firmware Security	Yes	Yes	
Vibration, Non-operating, 10 Hz to 500 Hz (Grms)     5       Mean Time Between Failure (MTEF, hours)     2,000,000     2,000,000       Reliability Raing @ H2 B4-7 Operation (AFR)     0,44%     0,44%       Non-roover adds Read Errors per Bis Read, Max     1 sector per 10E15     1 sector per 10E15       Power-On Hours per York (24-7)     8,780     8,700       Bytes per Sector     512     512       Linnick Warrary (yers)     5     5       Performance     7,200     7,200       Hardson Accoss performance     7,200     7,200       Hardson Accoss Speed (Dks)     60,3,0,1,5     60,3,0,1,5       Max: Sustained Transfer Rate OD (MBis, MBis)     194     194       Average Lutancy (ms)     12,5     12,5       Prove: Consent performance     12,5     12,5       Prove: Consent performance     7     7       Prove: Consent performance     12,2 vard,5 V     1,2 Vard,5 V       Prove: Consent performance     7     7       Prove: Consent performance     1,2 Vard,5 V     1,2 Vard,5 V       Prove: Consent performance     9,0 Con	Cache	128 MB	128 MB	
Mean Time Between Failures (MTBF, hours)     2,000,000     2,000,000       Reliabiliy Fating @ Full 84-7 Openation (AFF)     0.44%     0.44%       Non-rocoverable Read Errors per Bits Read, Max     1 sector per 10E15     1 sector per 10E15       Power, Chi Acars per Year (24-7)     8,780     8,780       Bytes per Sector     512     512       Limited Warrardy (years)     5     5       Performance     7,200     7,200       Interface Access Speed (Bith)     6,0,3,0,15     6,0,3,0,15       Average Latency (ms)     194     194       Average Latency (ms)     1,416     4,16       Interface Access Speed (Bith)     1,25     125       Average Latency (ms)     4,16     4,16       Interface Access Speed (Bith)     1,25     125       Average Latency (ms)     4,16     4,16       Interface Access Speed (Bith)     7     7       Power Scopt Rogitaments     +12 V and +5 V     125 F       Power Scopt Rogitaments     +12 V and +5 V     12 V and +5 V       Enviorencetating "C10     5°C -60°C     5°C -60°C       Shock, No	Reliability/Data Integrity			
Reliability Rating @ Full 24-7 Operation (AFR)     0.44%     0.44%       Non-rocoverable Read Errors per UBL Read, Max     1 sector per 10E15     1 sector per 10E15       Power-On-Hours per Year (24-7)     8,780     8,780       Pytes per Sector     512     512       Limbed Warranty (years)     5     5       Performance     7,200     7,200       Interface Access Speed (RbM)     7,200     7,200       Interface Access Speed (RbM)     6,0,3,0,15     6,0,3,0,15       Max: Seatimed Transfer Rale OD (MBs, MBIs)     194     416       Average Latency (ms)     4.16     4.16       Interface Ports     Single     Single       Roto Consumption     4.7     7       Vibration@ 1,500 Hz (radis*)     7     7       Power Average (W)     7     7       Power Supply Requirements     +12 V and +5 V     +12 V and +5 V       Environmental     Temperature, Operating (*C)     5*C = 60*C     5*C = 60*C       Shock, Non-sperating, 1 ms2 ms (Ga)     200000     200000     200000       Shock, Non-sperating, 1 ms2 ms (Ga)     20140 Gs <t< td=""><td>Vibration, Non-operating: 10 Hz to 500 Hz (Grms)</td><td>5</td><td>5</td></t<>	Vibration, Non-operating: 10 Hz to 500 Hz (Grms)	5	5	
Non-recoverable Read Errors per Bits Read, Max     1 sector per 10E15     1 sector per 10E15       Power-On-Hours per Year (24-7)     8,760     8,750       Bytes per Sector     512     512       Linnied Warraty (years)     5     5       Performance     7,200     7,200       Interface Recess Speed (RMM)     6,0,3,0,1,5     6,0,3,0,1,5       Max: Sustained Transfer Rate OD (MBs, MB/s)     194     194       Average Latency (ms)     4,16     4,16       Interface Recess Speed (RMV)     12,5     12,5       Power Orsuppton     12,5     12,5       Power Oversuppton     4,7     7       Power Suppty Requirements     +12 V ard +5 V     +12 V ard +5 V       Every orsuppty Requirements     5°C-6°C     5°C-6°C       Shock, Noer-operating, 1 max) <sup>1</sup> 28,1 mm/1.028 in     20,3000       Prover Oscuppton     200,300     200,300       Height (Inimin, max) <sup>1</sup> 28,1 mm/1.028 in     20,1 mm/1.028 in       Yord Oscuppton     200,200     200,200       Prover Suppty Requirements     200,2 mm/1.028 in       Height (Inimin, max) <sup>1</sup> </td <td>Mean Time Between Failures (MTBF, hours)</td> <td>2,000,000</td> <td>2,000,000</td>	Mean Time Between Failures (MTBF, hours)	2,000,000	2,000,000	
Power-On Hours per Year (24×7)     8,780     8,780       Bytes per Sector     512     512       Limited Warranty (years)     5     5       Performance     7,200     7,200       Interface Access Speed (Dt/s)     6,0,3,0,15     6,0,3,0,15       Max: Sustained Transfer Rate OD (MBs, MIB's)     194     194       Average Latery (ms)     4,16     4,16       Interface Ports     Single     Single       Rotation @ 1,000 Hz (rads <sup>1</sup> )     125     125       Power Consumption     4,7     4,7       Ide Power, Average Latery Average Latery (Source Consumption     4,12 V and +5 V       Transfer Rate, Operating (W)     4,7     7       Power Sock Operating (°C)     5°C - 60°C     5°C - 60°C       Shock, Operating 2 ms (Read Write) (Gs)     7040 Gs     7040 Gs       Shock, Operating 2 ms (Read Write) (Gs)     26.1 mm/1.028 in     26.1 mm/1.028 in       Weight (Inmin, max) <sup>1</sup> 26.1 mm/1.028 in     26.1 mm/1.028 in       Width (mmin, max) <sup>1</sup> 26.1 mm/1.028 in     26.1 mm/1.028 in       Weight (Ibr)     550 og 1212 lb     550 og 1212 lb <t< td=""><td>Reliability Rating @ Full 24×7 Operation (AFR)</td><td>0.44%</td><td>0.44%</td></t<>	Reliability Rating @ Full 24×7 Operation (AFR)	0.44%	0.44%	
Bytes par Sector     512       Limited Warranty (years)     5       Performance     5       Spindle Speed (RPM)     7.200       Interface Access Speed (Gb/s)     60, 30, 1.5       Max. Sustained Transfer Rate OD (MB/s, MB/s)     194       Average Latency (ms)     4.16       Average Latency (ms)     4.16       Interface Access Speed (Gb/s)     0.500 Hz (radish)       Catalonal Witzation @ 1,500 Hz (radish)     12.5       Fourier Consumption     12.5       Power Suppl Regularency (W)     4.7       Typical Operating (W)     7       Power Suppl Regularency (seg)     12.5       Environmental     7       Temperature, Operating (*C)     7       Stock, Noroperating (*C)     5°C – 60°C       Shock, Noroperating 1 maz)     26.1 mm/1.028 in       Height (innum, max) <sup>1</sup> 26.1 mm/1.028 in       Width (mmin, max) <sup>1</sup> 101.85 mm/4.01 in       Width (mmin, max) <sup>1</sup> 101.85 mm/4.0	Non-recoverable Read Errors per Bits Read, Max	1 sector per 10E15	1 sector per 10E15	
Limited Warranty (years)     5     5       Performance     3       Spinde Speed (RPM)     7.200     7.200       Interface Access Speed (GbS)     6.0, 3.0, 1.5     6.0, 3.0, 1.5       Max. Sustained Transfer Rab OD (MBs, MBs)     194     194       Average Latency (ms)     4.16     4.16       Interface Access Speed (GbS)     Single     Single       Rotational Vibration (@ 1,500 Hz (radis*)     12.5     12.5       Power Obrusting (W)     7     7     7       Power Gorsumption     4.12 V and +5 V     +12 V and +5 V     2.0       Iter Access Access and access	Power-On Hours per Year (24×7)	8,760	8,760	
Performance       Spindle Speed (RPM)     7,200     7,200       Interface Access Speed (Gb/s)     60, 30, 1.5     60, 30, 1.5       Max. Sustained Transfer Rate OD (MB/s, MB/s)     194     194       Average Latery (ms)     194     4.16       Interface Ports     Single     Single       Rotational Vibration @ 1,500 Hz (radis*)     12.5     12.5       Power Gonsumption     4.7     7       Ide Power, Average (W)     7     7       Power Gonsumption     4.7     7       Environmental     +12 V and +5 V     +12 V and +5 V       Environmental     5*C - 60° C     5*C - 60° C       Environmental     5*C - 60° C     5*C - 60° C       Shock, Operating (*C)     5*C - 60° C     5*C - 60° C       Shock, Non-operating 1. ms2 ms (Ga)     200300     200300       Environmental     101.85 mm/1.028 in     26.1 mm/1.028 in       Height (inmin, max) <sup>1</sup> 26.1 mm/1.028 in     26.1 mm/1.028 in       Width (mm/in, max) <sup>1</sup> 101.85 mm/4.01 in     101.85 mm/4.01 in       Depth (mm/in, max) <sup>1</sup> 147 mm/5.787 in     147 mm/5	Bytes per Sector	512	512	
Spinde Speed (RPM)     7.200     7.200       Interface Access Speed (Gb/s)     60, 30, 1.5     60, 30, 1.5       Max. Sustained Transfer Rate OD (MB/s, MB/s)     194     194       Average Latency (ms)     4.16     4.16       Interface Ports     Single     Single       Statistical Vitration @ 1.500 Hz (rad/s <sup>o</sup> )     12.5     12.5       Power Consumption     1     4.7     4.7       Typical Operating (W)     7     7     7       Power Supply Requirements     +12 V and +5 V     +12 V and +5 V     2.5       Environmental     Temperature, Operating 1 ms/2 ms (Gs)     7040 Gs     7040 Gs     5° C - 60° C       Shock, Non-operating 1 ms/2 ms (Gs)     7040 Gs     7040 Gs     7040 Gs     500 Gas       Shock, Non-operating 1 ms/2 ms (Gs)     200300     200300     200300     200300       Physical     417 mm/1.028 in     2.6.1 mm/1.028 in     2.6.1 mm/1.028 in     2.6.1 mm/1.028 in       Width (mm/m, max) <sup>1</sup> 2.6.1 mm/1.028 in     2.6.1 mm/1.028 in     2.6.1 mm/1.028 in     2.6.1 mm/1.028 in       Veight (Ibg)     6.50 g/ 1.212 lb     6.50	Limited Warranty (years)	5	5	
Interface Access Speed (Gb/s)     6.0, 3.0, 1.5     6.0, 3.0, 1.5       Max: Sustained Transfer Rate OD (MB/s, MB/s)     194     194       Average Latercy (ms)     4.16     4.16       Interface Ports     Single     Single       Rotational Vibration @ 1,500 Hz (radis*)     12.5     12.5       Power Consumption     125     12.5       Ide Power, Average (W)     4.7     4.7       Typical Operating (W)     7     7       Power Supply Requirements     +12 V and +5 V     +12 V and +5 V       Environmental     T     7       Temperature, Operating (°C)     5°C -60°C     5°C -60°C       Shock, Non-operating 1 ms/2 ms (Gs)     200300     200300       Physical     41     101.85 mm/4.01 in       Weight (infmm, max) <sup>1</sup> 26.1 mm/1.028 in     26.1 mm/1.028 in       Weight (Ms/g)     101.85 mm/4.01 in     101.85 mm/4.01 in       Depth (mm/in, max) <sup>1</sup> 20     20       Carton Unit Quantity     20     20       Carton Unit Quantity     20     20       Carton Unit Quantity     20     20	Performance			
Max: Sustained Transfer Rate OD (MB/s, MB/s)     194     194       Average Latency (ms)     4.16     4.16       Interface Ports     Single     Single       Rotational Vibration @: 1,500 Hz (radis*)     12.5     12.5       Power Consumption     125     12.5       Ide Power, Average (W)     4.7     4.7       Typical Operating (W)     7     7       Power Supply Requirements     +12 V and +5 V     +12 V and +5 V       Environmental     Temperature, Operating (°C)     5°C - 60°C     5°C - 60°C       Shock, Operating 2 ms (Read/Write) (Gs)     7/40 Gs     7/040 Gs     300300       Shock, Nor-operating, 1 ms2 ms (Gs)     200300     200300     200300       Physical     101.85 mm/4.01 in     101.85 mm/4.01 in     101.85 mm/4.01 in       Weight (invin, max) <sup>1</sup> 101.85 mm/4.01 in     101.85 mm/4.01 in     101.85 mm/4.01 in       Weight (bg)     550 gri 1.212 lb     550 gri 1.212 lb     550 gri 1.212 lb       Carton Unit Quantify     20     20     20	Spindle Speed (RPM)	7,200	7,200	
Average Latency (ms)     4.16     4.16       Interlace Ports     Single     Single       Rotational Vibration @ 1,500 Hz (radis*)     12.5     12.5       Power Consumption     12.5     12.5       Idle Power, Average (W)     4.7     4.7       Typical Operating (W)     7     7       Power Supply Requirements     +12 V and +5 V     +12 V and +5 V       Environmental     1000000     5°C - 60°C     5°C - 60°C       Shock, Operating (*C)     5°C - 60°C     5°C - 60°C     Shock, Operating 1 ms/2 ms (Gs)     200300     200300       Physical     101.85 mm/4.01 in     101.85 mm/4.01 in     101.85 mm/4.01 in     101.85 mm/4.01 in       Width (mm/in, max) <sup>1</sup> 101.85 mm/4.01 in     101.85 mm/4.01 in     101.85 mm/4.01 in       Depth (mm/in, max) <sup>1</sup> 147 mm/5.787 in     147 mm/5.787 in     147 mm/5.787 in       Veight (tip(g)     550 gri 1.212 lb     550 gri 1.212 lb     20       Carton Unit Quantity     20     20     20	Interface Access Speed (Gb/s)	6.0, 3.0, 1.5	6.0, 3.0, 1.5	
Interface Ports     Single     Single       Rotational Vibration @ 1,500 Hz (radis*)     12.5     12.5       Power Consumption     1     12.5     12.5       Idle Power, Average (W)     4.7     4.7       Typical Operating (W)     7     7       Power Supply Requirements     +12.V and +5.V     +12.V and +5.V       Environmental     10.5     5*C - 60°C       Shock, Operating (*C)     5*C - 60°C     5*C - 60°C       Shock, Operating 1 (*C)     5*C - 60°C     5*C - 60°C       Shock, Operating 2 ms (Read/Write) (Gs)     70/40 Gs     70/40 Gs       Shock, Non-operating 1 ms/2 ms (Gs)     200300     200300       Physical     101.85 mm/4.01 in     101.85 mm/4.028 in       Width (mm/in, max) <sup>1</sup> 101.85 mm/4.01 in     101.85 mm/4.01 in       Depth (Imm)     550 gri 1.212 lb     550 gri 1.212 lb       Carton Unit Quantity     20     20       Carton Sper Pallet     40     40	Max. Sustained Transfer Rate OD (MB/s, MiB/s)	194	194	
Rotational Vibration @ 1,500 Hz (rad/s³)     12.5       Power Consumption     12.5       Idle Power, Average (W)     4.7       Typical Operating (W)     7       Power Supply Requirements     +12 V and +5 V       Environmental     +12 V and +5 V       Temperature, Operating (°C)     5°C - 60°C       Shock, Operating (°C)     5°C - 60°C       Shock, Non-operating (°C)     5°C - 60°C       Shock, Non-operating (°C)     200300       Physical     200300       Height (in/mm, max) <sup>1</sup> 26.1 mm/1.028 in       Vidth (mm/in, max) <sup>1</sup> 101.85 mm/4.01 in       Depth (mm/in, max) <sup>1</sup> 147 mm/5.787 in       Weight (Ib/g)     550 g/1.212 Ib       Carton Unit Quantity     20       Carton Sper Pallet     40	Average Latency (ms)	4.16	4.16	
Power Consumption       Idle Power, Average (W)     4.7     4.7       Typical Operating (W)     7     7       Power Supply Requirements     +12 V and +5 V     +12 V and +5 V       Environmental     ************************************	Interface Ports	Single	Single	
Idle Power, Average (W)     4.7     4.7       Typical Operating (W)     7     7       Power Supply Requirements     +12 V and +5 V     +12 V and +5 V       Environmental     ************************************	Rotational Vibration @ 1,500 Hz (rad/s²)	12.5	12.5	
Typical Operating (W)     7     7       Power Supply Requirements     +12 V and +5 V     +12 V and +5 V       Environmental     ************************************	Power Consumption			
Processor     +12 V and +5 V     +12 V and +5 V       Environmental	Idle Power, Average (W)	4.7	4.7	
Environmental       Temperature, Operating (°C)     5°C – 60°C     5°C – 60°C       Shock, Operating 2 ms (Read/Write) (Gs)     70/40 Gs     70/40 Gs       Shock, Non-operating, 1 ms/2 ms (Gs)     200/300     200/300       Physical	Typical Operating (W)	7	7	
Temperature, Operating (°C)     5°C - 60°C     5°C - 60°C       Shock, Operating 2 ms (Read/Write) (Gs)     70/40 Gs     70/40 Gs       Shock, Non-operating, 1 ms/2 ms (Gs)     200/300     200/300       Physical         Height (in/mm, max) <sup>1</sup> 26.1 mm/1.028 in     26.1 mm/1.028 in       Width (mm/in, max) <sup>1</sup> 101.85 mm/4.01 in     101.85 mm/4.01 in       Depth (mm/in, max) <sup>1</sup> 147 mm/5.787 in     147 mm/5.787 in       Weight (Ib/g)     550 g/1.212 lb     550 g/1.212 lb       Cartons per Pallet     40     40	Power Supply Requirements	+12 V and +5 V	+12 V and +5 V	
Shock, Operating 2 ms (Read/Write) (Gs)     70/40 Gs     70/40 Gs       Shock, Non-operating, 1 ms/2 ms (Gs)     200/300     200/300     200/300       Physical     26.1 mm/1.028 in     26.1 mm/1.028 in     26.1 mm/1.028 in       Width (mm/in, max) <sup>1</sup> 101.85 mm/4.01 in     101.85 mm/4.01 in     101.85 mm/4.01 in       Depth (mm/in, max) <sup>1</sup> 147 mm/5.787 in     147 mm/5.787 in     147 mm/5.787 in       Weight (Ib/g)     550 g/1.212 lb     550 g/1.212 lb     20       Cartons per Pallet     40     40     40	Environmental			
Shock, Non-operating, 1 ms/2 ms (Gs)     200/300     200/300       Physical     26.1 mm/1.028 in     26.1 mm/1.028 in       Height (in/mm, max) <sup>1</sup> 26.1 mm/1.028 in     26.1 mm/1.028 in       Width (mm/in, max) <sup>1</sup> 101.85 mm/4.01 in     101.85 mm/4.01 in       Depth (mm/in, max) <sup>1</sup> 147 mm/5.787 in     147 mm/5.787 in       Weight (lb/g)     550 g/1.212 lb     550 g/1.212 lb       Cartons per Pallet     40     40	Temperature, Operating (°C)	5°C – 60°C	5°C – 60°C	
Physical       Height (in/mm, max) <sup>1</sup> 26.1 mm/1.028 in     26.1 mm/1.028 in       Width (mm/in, max) <sup>1</sup> 101.85 mm/4.01 in     101.85 mm/4.01 in       Depth (mm/in, max) <sup>1</sup> 147 mm/5.787 in     147 mm/5.787 in       Weight (lb/g)     550 g/1.212 lb     550 g/1.212 lb       Carton Unit Quantity     20     20       Cartors per Pallet     40     40	Shock, Operating 2 ms (Read/Write) (Gs)	70/40 Gs	70/40 Gs	
Height (in/mm, max) <sup>1</sup> 26.1 mm/1.028 in     26.1 mm/1.028 in       Width (mm/in, max) <sup>1</sup> 101.85 mm/4.01 in     101.85 mm/4.01 in       Depth (mm/in, max) <sup>1</sup> 147 mm/5.787 in     147 mm/5.787 in       Weight (lb/g)     550 g/1.212 lb     550 g/1.212 lb       Carton Unit Quantity     20     20       Cartors per Pallet     40     40	Shock, Non-operating, 1 ms/2 ms (Gs)	200/300	200/300	
Width (mm/in, max) <sup>1</sup> 101.85 mm/4.01 in     101.85 mm/4.01 in       Depth (mm/in, max) <sup>1</sup> 147 mm/5.787 in     147 mm/5.787 in       Weight (lb/g)     550 g/1.212 lb     550 g/1.212 lb       Carton Unit Quantity     20     20       Cartons per Pallet     40     40	Physical			
Depth (mm/in, max) <sup>1</sup> 147 mm/5.787 in     147 mm/5.787 in       Weight (lb/g)     550 g/1.212 lb     550 g/1.212 lb       Carton Unit Quantity     20     20       Cartons per Pallet     40     40	Height (in/mm, max) <sup>1</sup>	26.1 mm/1.028 in	26.1 mm/1.028 in	
Weight (b/g) 550 g/1.212 lb   Carton Unit Quantity 20   Cartons per Pallet 40	Width (mm/in, max) <sup>1</sup>	101.85 mm/4.01 in	101.85 mm/4.01 in	
Carton Unit Quantity 20 20   Cartons per Pallet 40 40	Depth (mm/in, max) <sup>1</sup>	147 mm/5.787 in	147 mm/5.787 in	
Cartons per Pallet 40 40	Weight (Ib/g)	550 g/1.212 lb	550 g/1.212 lb	
	Carton Unit Quantity	20	20	
Cartons per Layer 8 8	Cartons per Pallet	40	40	
	Cartons per Layer	8	8	

1 These base deck dimensions conform to the Small Form Factor Standard (SFF-8201) found at www.sffcommittee.org. For connector-related dimensions, see SFF-8223.

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