Product Overview

SAVVIO 10K.2
Boost performance density while cooling systems down

146GB and 73GB • 10K RPM • 3 Gbit/sec Serial Attached SCSI (SAS), 4 Gbit/sec Fibre Channel

Key Features and Benefits

• Small form factor and lowest power consumption of any enterprise drive yield better system airflow and cooler operation, enabling use of more powerful and hotter-running processors.
• Sets new record for highest reliability rating ever achieved by a disc drive; brings enterprise-class storage to blade servers, reducing blade failures and replacements
• Perpendicular recording is fundamentally superior, enabling higher capacities and up to 25 percent faster sequential performance than the previous generation of Savvio drives.
• The Savvio 2.5-inch form factor enables integration of more drives into smaller, more space-efficient chassis sizes to deliver higher IOPS/U than conventional 3.5-inch systems.

Best-Fit Applications

Applications utilizing high-density configurations where IOPS performance, energy efficiency and space-saving design are key, such as:

• Rack-optimized servers
• 1U RAID servers
• Server blades
• Rack-optimized storage arrays
• Space-constrained specialty applications
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Product Description
The second-generation Seagate® Savvio 10K.2 enterprise disc drive combines the coolest operating temperatures with a history-making reliability rating to ensure unrivalled efficiency in high-density storage environments. Utilizing perpendicular recording to double its available capacity to 146GB, Savvio 10K.2 also delivers up to 25 percent higher sequential performance. Savvio enables space-constrained Fortune 2000 data centers to achieve higher IOPS performance in small form factor system configurations while maintaining unprecedented levels of reliability, including a nonrecoverable error rate that’s been improved by a factor of 10.

The Seagate Advantage
• Coolest-running enterprise drive enables system to employ more powerful and hotter-running processors.
• Perpendicular recording enables highest enterprise SFF capacity ever—146GB—and up to 25 percent faster sequential performance than the previous Savvio drive.
• Savvio 10K.2 is a breakthrough product in disc drive reliability and is offered by a trusted partner.

Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
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<tbody>
<tr>
<td>Capacity (GB)</td>
<td>146, 73</td>
</tr>
<tr>
<td>Seek Time, Read/Write (average, msec)</td>
<td>3.8/4.4</td>
</tr>
<tr>
<td>Transfer Rate, Sustained (MB/sec)</td>
<td>Up to 85</td>
</tr>
<tr>
<td>Reliability Rating at Full 24x7 Operation (AFR)</td>
<td>0.55%</td>
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<tr>
<td>Nonrecoverable Read Errors per Bits Read</td>
<td>1 sector per 10^16</td>
</tr>
<tr>
<td>Power Consumption (W, idle) SAS</td>
<td>5.0 (146GB SAS), 4.8 (73GB SAS)</td>
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<tr>
<td>Interface</td>
<td>3 Gbit/sec Serial Attached SCSI (SAS)</td>
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<tr>
<td></td>
<td>4 Gbit/sec Fibre Channel</td>
</tr>
<tr>
<td>Warranty (years)</td>
<td>5</td>
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Enabling New Opportunities
• Savvio 10K.2 is the coolest-running SFF enterprise drive, reducing system temperatures and power consumption while enabling improved airflow.
• Savvio 10K.2 brings true enterprise-class performance and reliability to blade servers.
• Savvio 10K.2 boasts a record-breaking reliability rating, ensures higher uptime in rigorous enterprise environments.
• Savvio 10K.2 enables full RAID 5 functionality in a 1U server, consuming less power while delivering more IOPS than a conventional 3.5-inch 2U server.

www.seagate.com
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