Introduction

Innodisk M.2 (S42) 3MG2-P is designed as the standard M.2 form factor with SATA interface, and supports SATA III standard (6.0Gb/s) with excellent performance. The form factor refers to the M.2 (NGFF) specification which established by JEDEC. Regarding of mechanical interference, Innodisk M.2 (S42) 3MG2-P absolutely replaces the traditional hard disk and makes personal computer, in any field, smaller and easier.

Innodisk M.2 (S42) 3MG2-P effectively reduces the booting time of operation system and the power consumption is less than hard disk drive (HDD), and complies with ATA protocol, no additional drives are required, and can be configured as a boot device or data storage device.
Innodisk is a service-driven provider of industrial embedded flash and DRAM storage products and technologies, with a focus on the cloud computing, industrial/embedded, and aerospace and defense industries.

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Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Standard Grade</th>
<th>Industrial Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interface</td>
<td>SATA III</td>
<td>S.M.A.R.T.</td>
</tr>
<tr>
<td>Flash Type</td>
<td>MLC</td>
<td></td>
</tr>
<tr>
<td>P/E cycle</td>
<td>3,000</td>
<td></td>
</tr>
<tr>
<td>Capacity</td>
<td>32GB~256GB</td>
<td></td>
</tr>
<tr>
<td>Max. Channels</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Sequential R/W (MB/sec, max.)</td>
<td>530/340</td>
<td></td>
</tr>
<tr>
<td>Max. Power Consumption</td>
<td>2.6 W (3.3V x 788 mA )</td>
<td></td>
</tr>
<tr>
<td>Thermal Sensor</td>
<td>√</td>
<td></td>
</tr>
<tr>
<td>External DRAM buffer</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>H/W Write Protect</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>ATA Security</td>
<td>√</td>
<td></td>
</tr>
<tr>
<td>Dimension (WxLxH)</td>
<td>22.0 X 42.0 X 3.5 mm</td>
<td></td>
</tr>
<tr>
<td>Environment</td>
<td>Vibration: 20G @7~2000Hz</td>
<td>Storage Temperature: -55°C ~ +95°C</td>
</tr>
<tr>
<td></td>
<td>Shock: 1500G @ 0.5ms</td>
<td>MTBF: 3 million hours</td>
</tr>
</tbody>
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Ordering Information

<table>
<thead>
<tr>
<th>Operation Temp.</th>
<th>32GB</th>
<th>64GB</th>
<th>128GB</th>
<th>256GB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard Grade</td>
<td>DGM24-32GD81BCADC</td>
<td>DGM24-64GD81BCAQC</td>
<td>DGM24-A28D81BCAQC</td>
<td>DGM24-B56D81BCAQC</td>
</tr>
<tr>
<td>(0°C ~ +70°C)</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Industrial Grade</td>
<td>DGM24-32GD81BWADC</td>
<td>DGM24-64GD81BWAQC</td>
<td>DGM24-A28D81BWAQC</td>
<td>DGM24-B56D81BWAQC</td>
</tr>
<tr>
<td>(-40°C ~ +85°C)</td>
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