Datasheet

**M.2 (P80) 3TG6-P series**

- PCIe Gen. III x4, NVMe 1.3
- Excellent data transfer speed
- Stable sustained performance
- Heat-spreading design
- LDPC ECC engine supported.

**Introduction**

Innodisk M.2 (P80) 3TG6-P is an NVM Express SSD designed as the standard M.2 form factor with PCIe interface and 3D TLC NAND Flash. M.2 (P80)3TG6-P supports PCIe Gen III x4, and it is compliant with NVMe 1.3 providing excellent performance. M.2 (P80) 3TG6-P with heat-spreading design dissipate heat generating from IC making SSD perform more steady. M.2 (P80) 3TG6-P have Die RAID protection to reduce bad blocks happening and optimize data integrity.

Innodisk M.2 (P80) 3TG6-P provides ultra-speed and high IOPS and offers maximum capacity up to 2TB, making the SSD optimal for server and heavy data workload applications.
M.2 (P80) 3TG6-P series

Contact us for more information about the M2 (P80) 3TG6-P.

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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Diagram(ST)

Diagram(WT)
M.2 (P80) 3TG6-P series

Diagram(ST)

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<table>
<thead>
<tr>
<th>Interface</th>
<th>PCIe Gen. III x4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash Type</td>
<td>3D TLC</td>
</tr>
<tr>
<td>P/E cycle</td>
<td>3,000</td>
</tr>
<tr>
<td>Capacity</td>
<td>128GB~2TB</td>
</tr>
<tr>
<td>Max. Channels</td>
<td>8</td>
</tr>
<tr>
<td>Sequential R/W (MB/sec, max.)</td>
<td>3200/1300</td>
</tr>
<tr>
<td>Max. Power Consumption</td>
<td>5.6W(3.3 x 1.7A)</td>
</tr>
<tr>
<td>Thermal Sensor</td>
<td>√</td>
</tr>
<tr>
<td>External DRAM buffer</td>
<td>√</td>
</tr>
<tr>
<td>H/W Write Protect</td>
<td>NA</td>
</tr>
</tbody>
</table>
| Dimension (WxLxH)  | ST with heat-spreading copper layer: 22.0 X 80.0 X 3.95 mm
|                    | WT with heatsink: 23.6 X 80.0 X 14.45 mm
|                    | (Pure M.2: 22.0 X 80.0 X 3.5 mm) |

Environment
Vibration: 20G @7~2000Hz
Shock: 1500G @ 0.5ms
Storage Temperature: -55°C ~ +95°C
MTBF: 3 million hours

Ordering Information

<table>
<thead>
<tr>
<th>Operation Temp.</th>
<th>64GB</th>
<th>128GB</th>
<th>256GB</th>
<th>512GB</th>
<th>1TB</th>
<th>2TB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard Grade</td>
<td>DGM28-64GDC1ECADF</td>
<td>DGM28-64GDC1ECADF</td>
<td>DGM28-B56DC1ECAEF</td>
<td>DGM28-C12DC1ECAEF</td>
<td>DGM28-01TDC1ECAEF</td>
<td>DGM28-02TDC1GCAEF</td>
</tr>
<tr>
<td>(0°C ~ +70°C)</td>
<td>DGM28-A28DC1ECAQF</td>
<td>DGM28-A28DC1ECAQF</td>
<td>DGM28-B56DC1ECAEF</td>
<td>DGM28-C12DC1ECAEF</td>
<td>DGM28-01TDC1ECAEF</td>
<td>DGM28-02TDC1GCAEF</td>
</tr>
</tbody>
</table>

Industrial Grade
(-40°C ~ +85°C)

| DGM28-64GDC1EWADFH | DGM28-A28DC1EWAQFH | DGM28-B56DC1EWAEFH | DGM28-C12DC1EWAEFH | DGM28-01TDC1EWAEFH | NA |

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