Datasheet

SATA Slim 3MV2-P series

- SATA III solution for industrial field
- High IOPS solution
- iData Guard protection
- iSMART disk health monitoring
- Intelligent error recovery system
- Excellent data transfer speed
- Zero mechanical interference
- Compatible with JEDEC MO-297 standard

Introduction

InnoREC is innodisk’s proprietary flash feature set designed specifically for surveillance applications. Through the smart integration of firmware and hardware, the speed and performance required by modern surveillance solutions is fully met. SATA Slim 3MV2-P products provide high capacity flash memory Solid State Drive (SSD) that electrically complies with Serial ATA (SATA) standard. It supports SATA III standard (6.0GHz) with high performance and supports several features, including REC line, iData Guard, Quick Erase, Thermal sensor, and S.M.A.R.T.
Innokid is a service-driven provider of industrial-embedded flash and DRAM storage products and technologies, with a focus on the industrial/embedded, aerospace and defense, and cloud computing industries.

## SATA Slim 3MV2-P series

### Interface
- SATA III

### Flash Type
- MLC

### Capacity
- 8GB~512GB

### Max. Channels
- 4

### Sequential R/W (MB/sec, max.)*
- 520/460 (steady performance refer to TPS)

### 4KB Random (QD32) R/W (IOPS)**
- 75,000/79,000

### Max. Power Consumption
- 2.6W (5V x 520 mA)

### Thermal Sensor
- √

### External DRAM Buffer
- √

### H/W Write Protect
- Optional

### Pin7 Power
- –

### ATA Security
- √

### S.M.A.R.T.
- √

### DEVSLP Mode
- √ (min. power consumption 3mW)

### Slumber Mode
- √ (min. power consumption 30mW)

### Dimension (WxLxH)
- 54.0 X 39.0 X 4.0 mm

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

* Sequential performance based on CrystalDiskMark 5.05 with file size 1000MB
** Random performance based on IOmeter with Queue Depth 32

### Ordering Information

<table>
<thead>
<tr>
<th>Operation Temp.</th>
<th>8GB</th>
<th>16GB</th>
<th>32GB</th>
<th>64GB</th>
<th>128GB</th>
<th>256GB</th>
<th>512GB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard Grade</td>
<td>DVSLM-08GD81BC1SC</td>
<td>DVSLM-16GD81BC1SC</td>
<td>DVSLM-32GD81BC1SC</td>
<td>DVSLM-64GD81BC1QC</td>
<td>DVSLM-A28D81BC1QC</td>
<td>DVSLM-B56D81BC1QC</td>
<td>DVSLM-C12D81BCAQC</td>
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<tr>
<td>Industrial Grade</td>
<td>DVSLM-08GD81BW1SC</td>
<td>DVSLM-16GD81BW1SC</td>
<td>DVSLM-32GD81BW1SC</td>
<td>DVSLM-64GD81BW1QC</td>
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