Customer: ________________________________
Customer Part Number: ________________________________
Innodisk Part Number: ________________________________
Innodisk Model Name: ________________________________
Date: ________________________________

<table>
<thead>
<tr>
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<th>Customer Approver</th>
</tr>
</thead>
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<tr>
<td></td>
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</tbody>
</table>
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<td>Preliminary</td>
<td>First Released</td>
<td>AUG., 2013</td>
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<tr>
<td>Rev. 1.0</td>
<td>Update information of iCell technology</td>
<td>AUG., 2013</td>
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<td>1. Update SSD performance</td>
<td>OCT., 2013</td>
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<td></td>
<td>2. 32GB sequential read 455MB/sec-&gt; 450MB/sec</td>
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<td></td>
<td>3. 64GB sequential write 155MB/sec-&gt; 150MB/sec</td>
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<td>Rev. 1.2</td>
<td>1. Release 512GB and relevant information</td>
<td>JAN., 2014</td>
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<td></td>
<td>2. Update dimensions</td>
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<td>1. Update performance</td>
<td>APR., 2014</td>
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<td>1. Modify Part number rule</td>
<td>Sep., 2014</td>
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<td>2. Add E-mark certification</td>
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<td>3. Add SAEJ1113 Report</td>
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<td>Remove flash endurance</td>
<td>Jan., 2015</td>
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<td>Rev 2.1.1</td>
<td>Remove 512GB</td>
<td>Feb., 2015</td>
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<td>Update ME drawing</td>
<td>Jul., 2015</td>
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1. Product Overview

1.1 Introduction of Innodisk 2.5” SATA SSD 3MR-P

Innodisk 2.5” SATA SSD 3MR-P is a SATA III 6.0Gb/s flash based disk, which delivers excellent performance and reliability. Especially, it comes with several data security functions, including QEraser/ SEraser/ Destroy and also Write Protect. All the security functions can be triggered both by hardware and software approaches. 2.5” SATA SSD 3MR-P is compliant with MIL-STD-810F/G standards. The SSD is equipped ruggedized hardware design and thus it can perform well in the harsh environment.

Innodisk 2.5” SATA SSD 3MR-P products provide high capacity flash memory Solid State Drive (SSD) that electrically complies with Serial ATA (SATA) standard. Innodisk 2.5” SATA SSD 3MR-P delivers sustain read speeds of up to 460MB/s and sustain write speeds of up to 240MB/s. Beside sequential read/ write performance, Innodisk 2.5” SATA SSD 3MR-P also enhances random data access for small files. Furthermore, Innodisk 2.5” SATA SSD 3MR-P supports TRIM for windows 7, which can improve performance when deleting files. 2.5” SATA SSD 3MR-P is developed with Innodisk owned technical knowhow to ensure the data integrity and highest levels of reliability.

1.2 Product View and Models

Innodisk 2.5” SATA SSD 3MR-P is available in follow capacities within MLC flash ICs.

2.5” SATA SSD 3MR-P 32GB  
2.5” SATA SSD 3MR-P 64GB  
2.5” SATA SSD 3MR-P 128GB  
2.5” SATA SSD 3MR-P 256GB

Figure 1: Innodisk 2.5” SATA SSD 3MR-P
1.3 SATA Interface

Innодiсk 2.5” SATA SSD 3MR-P supports SATA III interface, and compliant with SATA I and SATA II. SATA III interface can work with Serial Attached SCSI (SAS) host system, which is used in server computer. Innодiсk 2.5” SATA SSD 3MR-P is compliant with Serial ATA Gen 1, Gen 2 and Gen 3 specification (Gen 3 supports 1.5Gbps /3.0Gbps/6.0Gbps data rate). SATA connector uses a 7-pin signal segment and a 15-pin power segment.

1.4 2.5-inch Form Factor

The Industry-standard 2.5-inch form factor design with metal material case is easy for installation because 2.5-inch is a popular form factor in industrial field. 2.5-inch is most laptop’s hard disk’s form factor. Innодiсk 2.5” SATA SSD 3MR-P can easy install in laptop. Innодiсk 2.5” SATA SSD 3MR-P has a compact design 69.85mm (W) x100.10mm (L) x 9.20mm (H).
2. Product Specifications

2.1 Capacity and Device Parameters
2.5” SATA SSD 3MR-P device parameters are shown in Table 1.

<table>
<thead>
<tr>
<th>Capacity</th>
<th>LBA</th>
<th>Cylinders</th>
<th>Heads</th>
<th>Sectors</th>
<th>User Capacity (MB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>32GB</td>
<td>60579792</td>
<td>16383</td>
<td>16</td>
<td>63</td>
<td>29579</td>
</tr>
<tr>
<td>64GB</td>
<td>121138416</td>
<td>16383</td>
<td>16</td>
<td>63</td>
<td>59149</td>
</tr>
<tr>
<td>128GB</td>
<td>242255664</td>
<td>16383</td>
<td>16</td>
<td>63</td>
<td>118288</td>
</tr>
<tr>
<td>256GB</td>
<td>484490160</td>
<td>16383</td>
<td>16</td>
<td>63</td>
<td>236567</td>
</tr>
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</table>

2.2 Performance
Burst Transfer Rate: 6.0Gbps

<table>
<thead>
<tr>
<th>Capacity</th>
<th>32GB</th>
<th>64GB</th>
<th>128GB</th>
<th>256GB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sequential Read (max.)</td>
<td>470 MB/sec</td>
<td>490 MB/sec</td>
<td>490 MB/sec</td>
<td>500 MB/sec</td>
</tr>
<tr>
<td>Sequential Write (max.)</td>
<td>85 MB/sec</td>
<td>160 MB/sec</td>
<td>160 MB/sec</td>
<td>260 MB/sec</td>
</tr>
</tbody>
</table>

Note: Base on CrystalDiskMark 3.01 with file size 1000MB

2.3 Electrical Specifications

2.3.1 Power Requirement

<table>
<thead>
<tr>
<th>Item</th>
<th>Symbol</th>
<th>Rating</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input voltage</td>
<td>$V_{IN}$</td>
<td>+5 DC +/- 5%</td>
<td>V</td>
</tr>
</tbody>
</table>

2.3.2 Power Consumption

<table>
<thead>
<tr>
<th>Mode</th>
<th>Power Consumption (mA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Read</td>
<td>600 (max.)</td>
</tr>
<tr>
<td>Write</td>
<td>900 (max.)</td>
</tr>
<tr>
<td>Idle</td>
<td>230 (max.)</td>
</tr>
</tbody>
</table>

* Target: 2.5” SATA SSD 3MR-P 256GB
2.4 Environmental Specifications

2.4.1 Temperature Ranges

<table>
<thead>
<tr>
<th>Temperature</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating</td>
<td>Standard Grade: 0°C to +70°C</td>
</tr>
<tr>
<td></td>
<td>Industrial Grade: -40°C to +85°C</td>
</tr>
<tr>
<td>Storage</td>
<td>-55°C to +95°C</td>
</tr>
</tbody>
</table>

2.4.2 Humidity

Relative Humidity: 10-95%, non-condensing

2.4.3 Shock and Vibration

<table>
<thead>
<tr>
<th>Reliability</th>
<th>Test Conditions</th>
<th>Reference Standards</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vibration</td>
<td>7 Hz to 2K Hz, 20G, 3 axes</td>
<td>IEC 68-2-6</td>
</tr>
<tr>
<td>Mechanical Shock</td>
<td>Duration: 0.5ms, 1500 G, 3 axes</td>
<td>IEC 68-2-27</td>
</tr>
</tbody>
</table>

2.4.4 Mean Time between Failures (MTBF)

Table 7 summarizes the MTBF prediction results for various 2.5” SATA SSD 3MR-P configurations. The analysis was performed using a RAM Commander™ failure rate prediction.

- **Failure Rate**: The total number of failures within an item population, divided by the total number of life units expended by that population, during a particular measurement interval under stated condition.

- **Mean Time between Failures (MTBF)**: A basic measure of reliability for repairable items: The mean number of life units during which all parts of the item perform within their specified limits, during a particular measurement interval under stated conditions.

<table>
<thead>
<tr>
<th>Product</th>
<th>Condition</th>
<th>MTBF (Hours)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Innodisk 2.5” SATA SSD 3MR-P</td>
<td>Telcordia SR-332 GB, 25°C</td>
<td>&gt;3,000,000</td>
</tr>
</tbody>
</table>
2.5 CE and FCC Compatibility

2.5” SATA SSD 3MR-P conforms to CE and FCC requirements.

2.6 RoHS Compliance

2.5” SATA SSD 3MR-P is fully compliant with RoHS directive.

2.7 Reliability

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Read Cycles</td>
<td>Unlimited Read Cycles</td>
</tr>
<tr>
<td>Wear-Leveling Algorithm</td>
<td>Support</td>
</tr>
<tr>
<td>Bad Blocks Management</td>
<td>Support</td>
</tr>
<tr>
<td>Error Correct Code</td>
<td>Support</td>
</tr>
<tr>
<td>Flash Endurance</td>
<td>3,000 P/E cycles</td>
</tr>
<tr>
<td>TBW(Sequential Write)</td>
<td></td>
</tr>
<tr>
<td>32GB</td>
<td>84.4</td>
</tr>
<tr>
<td>64GB</td>
<td>172.8</td>
</tr>
<tr>
<td>128GB</td>
<td>345.6</td>
</tr>
<tr>
<td>256GB</td>
<td>691.2</td>
</tr>
</tbody>
</table>

2.8 Transfer Mode

2.5” SATA SSD 3MR-P support the following transfer modes,
Serial ATA III 6.0Gbps
Serial ATA II 3.0Gbps
Serial ATA I 1.5Gbps

2.9 Pin Assignment

Innodisk 2.5” SATA SSD 3MR-P uses a standard SATA pin-out. See Table 8 for 2.5” SATA SSD 3MR-P pin assignment.

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>S1</td>
<td>GND</td>
<td>NA</td>
</tr>
<tr>
<td>S2</td>
<td>A+</td>
<td>Differential Signal Pair A</td>
</tr>
<tr>
<td>S3</td>
<td>A-</td>
<td></td>
</tr>
<tr>
<td>S4</td>
<td>GND</td>
<td>NA</td>
</tr>
<tr>
<td>S5</td>
<td>B-</td>
<td>Differential Signal Pair B</td>
</tr>
<tr>
<td>S6</td>
<td>B+</td>
<td></td>
</tr>
<tr>
<td>S7</td>
<td>GND</td>
<td>NA</td>
</tr>
</tbody>
</table>

Key and Spacing separate signal and power segments
### 2.5” SATA SSD 3MR-P

<table>
<thead>
<tr>
<th>Pin</th>
<th>Function</th>
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</thead>
<tbody>
<tr>
<td>P1</td>
<td>NC</td>
</tr>
<tr>
<td>P2</td>
<td>NC</td>
</tr>
<tr>
<td>P3</td>
<td>NC</td>
</tr>
<tr>
<td>P4</td>
<td>GND</td>
</tr>
<tr>
<td>P5</td>
<td>GND</td>
</tr>
<tr>
<td>P6</td>
<td>GND</td>
</tr>
<tr>
<td>P7</td>
<td>V5 5V Power, Pre-Charge</td>
</tr>
<tr>
<td>P8</td>
<td>V5 5V Power</td>
</tr>
<tr>
<td>P9</td>
<td>V5 5V Power</td>
</tr>
<tr>
<td>P10</td>
<td>GND</td>
</tr>
<tr>
<td>P11</td>
<td>DAS/DSS Device Activity Signal / Disable Staggered</td>
</tr>
<tr>
<td>P12</td>
<td>GND</td>
</tr>
<tr>
<td>P13</td>
<td>NC</td>
</tr>
<tr>
<td>P14</td>
<td>NC</td>
</tr>
<tr>
<td>P15</td>
<td>NC</td>
</tr>
</tbody>
</table>

#### 2.10 Mechanical Dimensions
2.11 Assembly Weight
An Innodisk 2.5” SATA SSD 3MR-P within MLC flash ICs, 32GB’s weight is 100 grams approx. The total weight of SSD will be less than 110 grams.

2.12 Seek Time
Innodisk 2.5” SATA SSD 3MR-P is not a magnetic rotating design. There is no seek or rotational latency required.

2.13 Hot Plug
The SSD support hot plug function and can be removed or plugged-in during operation. User has to avoid hot plugging the SSD which is configured as boot device and installed operation system.

Surprise hot plug: The insertion of a SATA device into a backplane (combine signal and power) that has power present. The device powers up and initiates an OOB sequence.

Surprise hot removal: The removal of a SATA device from a powered backplane, without first being placed in a quiescent state.

2.14 NAND Flash Memory
Innodisk 2.5” SATA SSD 3MR-P uses Multi Level Cell (MLC) NAND flash memory, which is non-volatility, high reliability and high speed memory storage. There are only four statuses 00, 01, 10 or 11 of two cells. Read or Write data to flash memory for SSD is control by microprocessor.
3. Theory of Operation

3.1 Overview

Figure 2 shows the operation of Innodisk 2.5” SATA SSD 3MR-P from the system level, including the major hardware blocks.

![Block Diagram Image]

Figure 2: Innodisk 2.5” SATA SSD 3MR-P Block Diagram

Innodisk 2.5” SATA SSD 3MR-P integrates a SATA III controller and NAND flash memories. Communication with the host occurs through the host interface, using the standard ATA protocol. Communication with the flash device(s) occurs through the flash interface.

3.2 SATA III Controller

Innodisk 2.5” SATA SSD 3MR-P is designed with ID 167, a SATA III 6.0Gbps (Gen. 3) controller, which supports external DDR3 DRAM. The Serial ATA physical, link and transport layers are compliant with Serial ATA Gen 1, Gen 2 and Gen 3 specification (Gen 3 supports 1.5Gbps/3.0Gbps/6.0Gbps data rate). The controller has 4 channels for flash interface.
3.3 Error Detection and Correction

Highly sophisticated Error Correction Code algorithms are implemented. The ECC unit consists of the Parity Unit (parity-byte generation) and the Syndrome Unit (syndrome-byte computation). This unit implements an algorithm that can correct 40 bits per 1024 bytes in an ECC block. Code-byte generation during write operations, as well as error detection during read operation, is implemented on the fly without any speed penalties.

3.4 Wear-Leveling

Flash memory can be erased within a limited number of times. This number is called the erase cycle limit or write endurance limit and is defined by the flash array vendor. The erase cycle limit applies to each individual erase block in the flash device.

Innodisk 2.5” SATA SSD 3MR-P uses a static wear-leveling algorithm to ensure that consecutive writes of a specific sector are not written physically to the same page/block in the flash. This spreads flash media usage evenly across all pages, thereby extending flash lifetime.

3.5 Bad Blocks Management

Bad Blocks are blocks that contain one or more invalid bits whose reliability are not guaranteed. The Bad Blocks may be presented while the SSD is shipped, or may develop during the life time of the SSD. When the Bad Blocks is detected, it will be flagged, and not be used anymore. The SSD implement Bad Blocks management, Bad Blocks replacement, Error Correct Code to avoid data error occurred. The functions will be enabled automatically to transfer data from Bad Blocks to spare blocks, and correct error bit.

3.6 Power Cycling

Innodisk’s power cycling management is a comprehensive data protection mechanism that functions before and after a sudden power outage to SSD. Low-power detection terminates data writing before an abnormal power-off, while table-remapping after power-on deletes corrupt data and maintains data integrity. Innodisk’s power cycling provides effective power cycling management, preventing data stored in flash from degrading with use.

3.7 Garbage Collection/TRIM

Garbage collection and TRIM technology is used to maintain data consistency and perform continual data cleansing on SSDs. It runs as a background process, freeing up valuable controller resources while sorting good data into available blocks, and deleting bad blocks. It also significantly reduces write operations to the drive, thereby increasing the SSD’s speed and lifespan.
3.8 iCell Technology

iCell circuit is designed with several capacitors to be able to provide power after host power off. The SSD controller can write all DRAM buffer data to flash, so that is why 2.5” SATA SSD 3MR-P can ensure all data can be written to disk without any data loss.
4. Installation Requirements

4.1 2.5” SATA SSD 3MR-P Pin Directions

![Diagram of pin directions]

Figure 3: Signal Segment and Power Segment

4.2 Electrical Connections for 2.5” SATA SSD 3MR-P

A Serial ATA device may be either directly connected to a host or connected to a host through a cable. For connection via cable, the cable should be no longer than 1 meter. The SATA interface has a separate connector for the power supply. Please refer to the pin description for further details.
4.3 Form Factor

Please prepare following things:

- Screw driver.
- Four M3 screws.
- SATA single cable (7-pin, Maximum length 1 meter).
- SATA power cable (15-pin).

Please turn off your computer, and open your computer’s case. Find one of available 2.5-inch slot, and plug the SSD in. To use the screws fix the SSD. Plug in the SATA single cable, and power cable. Please boot the installation Operation System from CD-ROM, and install Operation System into SSD.

![Figure 4: 2.5” SATA SSD 3MR-P Mechanical Screw Hole](image)

4.4 Device Drive

No additional device drives are required. Innodisk 2.5” SATA SSD 3MR-P can be configured as a boot device.
## 5. Part Number Rule

<table>
<thead>
<tr>
<th>CODE</th>
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<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
<th>13</th>
<th>14</th>
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<th>17</th>
<th>18</th>
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<tbody>
<tr>
<td>D</td>
<td>R</td>
<td>S</td>
<td>2</td>
<td>5</td>
<td>-</td>
<td>3</td>
<td>2</td>
<td>G</td>
<td>D</td>
<td>6</td>
<td>7</td>
<td>R</td>
<td>C</td>
<td>1</td>
<td>Q</td>
<td>C</td>
<td>-</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

### Definition

**Code 1<sup>st</sup> (Disk)**

- **D**: Disk

**Code 2<sup>nd</sup> (Feature Set)**

- **R**: InnoRobust

**Code 3<sup>rd</sup> ~ 5<sup>th</sup> (Form Factor)**

- **S25**: 2.5” SATA SSD

**Code 7<sup>th</sup> ~ 9<sup>th</sup> (Capacity)**

- **32G**: 32GB
- **64G**: 64GB

**Code 10<sup>th</sup> ~ 12<sup>th</sup> (Controller)**

- **A28**: 128GB
- **B56**: 256GB

**Code 13<sup>th</sup> (Flash Mode)**

- **R**: Toshiba 19 Synchronous Flash for 3ME/3MG-P/3MR-P series

**Code 14<sup>th</sup> (Operation Temperature)**

- **C**: Standard Grade (0°C ~ +70°C)

**Code 15<sup>th</sup> (Internal Control)**

- **Q**: Quad Channels

**Code 16<sup>th</sup> (Channel of Data Transfer)**

- **C**: Toshiba MLC

**Code 17<sup>th</sup> (Flash Type)**

- **D67**: ID167
RoHS 自我宣告書（RoHS Declaration of Conformity）

Model Name: 2.5" SATA SSD 3MG-P/3IE-P/3MR-P Series

P/N: D@S25-XXXD67＊※※※&
@ Feature set (G:EverGreen,H:isLC,R:InnoRobust)
XXX: 08G-C12(512G)
* Flash Mode
#: Temperature(C:Commercial Temp W:Industrial Temp)
%: PCB Version (A B C...or 1 2 3...)
*: Channel (S:Single,D:Dual,Q:Quad,E:Eight)
#: Flash Vendor (T: Micron SLC,S:Samsung SLC,N: Micron MLC,B:Toshiba SLC,C:Toshiba MLC,F:Sandisk SLC,X:SLC)

一 宜鼎國際股份有限公司（以下稱本司）特此保證售予貴公司之所有產品，皆符合歐盟 2011/65/EU 關於 RoHS 之規範要求。

InnoDisk Corporation declares that all products sold to the company, are complied with European Union RoHS Directive (2011/65/EU) requirement.

二 本公司同意因本保證書或與本保證書相關事宜有所爭議時，雙方宜友好協商，達成協議。

InnoDisk Corporation agrees that both parties shall settle any dispute arising from or in connection with this Declaration of Conformity by friendly negotiations.

<table>
<thead>
<tr>
<th>Name of hazardous substance</th>
<th>Limited of RoHS ppm (mg/kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cd</td>
<td>&lt; 100 ppm</td>
</tr>
<tr>
<td>Pb</td>
<td>&lt; 1000 ppm</td>
</tr>
<tr>
<td>Hg</td>
<td>&lt; 1000 ppm</td>
</tr>
<tr>
<td>Chromium VI (Cr+6)</td>
<td>&lt; 1000 ppm</td>
</tr>
<tr>
<td>Polybrominated Biphenyl ether (PBDE)</td>
<td>&lt; 1000 ppm</td>
</tr>
<tr>
<td>Polybrominated Biphenyls (PBB)</td>
<td>&lt; 1000 ppm</td>
</tr>
</tbody>
</table>

立保證書人

Company name 公司名稱：InnoDisk Corporation 宜鼎國際股份有限公司

Company Representative 公司代表人：Richard Lee 李錦亮

Company Representative Title 公司代表人職稱：CEO 執行長

Date 日期：2013 / 07 / 01
REACH Declaration of Conformity

Manufacturer Product: All Innodisk EM Flash and Dram products

1. 宜鼎國際股份有限公司（以下稱本公司）特此保證此售予貴公司之產品，皆符合歐盟化學品法令 (Registration, Evaluation and Authorization of Chemicals; REACH)之規定
   (http://www.echa.europa.eu/de/candidate-list-table last updated: 16/05/2014)。所提供之產品包含：(1) 產品或產品所使用到的所有原物料；(2) 包裝材料；(3) 廠商及重工過程中所使用到的所有原物料。

   We Innodisk Corporation hereby declare that our products are in compliance with the requirements according to the REACH Regulation (http://www.echa.europa.eu/de/candidate-list-table last updated: 16/06/2014).

   Products include: 1) Product and raw material used by the product; 2) Packaging material; 3) Raw material used in the process of design, production and rework

2. 本公司同意因本保證書或與本保證書相關事宜有所爭議時，雙方宜友好協商，達成協議。

   Innodisk Corporation agrees that both parties shall settle any dispute arising from or in connection with this Declaration of Conformity by friendly negotiations.

   立  保  證  書  人 (Guarantor)

   Company name 公司名稱： Innodisk Corporation 宜鼎國際股份有限公司

   Company Representative 公司代表人： Richard Lee 李鍾榮

   Company Representative Title 公司代表人職稱： CEO 執行長

   Date 日期： 2014 / 07 / 23
Verification of Compliance

Product Name : 2.5" SATA SSD 3MG-P/3IE-P/3MR-P
Model Number : D@S25-XXXD67# %&
   @: Feature set (G: EverGreen, H: iSLC, R:InnoRobust)
   XXX: 8GB–512GB
   * : Flash Mode
   #: Temperature (C: Commercial Temp W: Industrial Temp)
   % : PCB Version (A, B, C… or 1, 2, 3…) 
   ⋆: Channel (S: Single, D: Dual, Q: Quad, E: Eight)
   & : Flash Vendor (T: Micron SLC, S: Samsung SLC, N: Micron MLC,
   B: Toshiba SLC, C: Toshiba MLC, F: Sandisk SLC, X: SLC)
Applicant : Innodisk Corporation
Address : 9F, No.100, Sec. 1, Xintai 5th Rd., Xizhi Dist., New Taipei City 221, Taiwan
Report Number : O22-U070-1306-260
Issue Date : July 22, 2013
Applicable Standards : EN 55022:2010 Class B ITE
                     AS/NZS CISPR22:2009 Class B ITE
                     EN 55024:2010
                     EN 61000-4-2:2009
                     EN 61000-4-4:2004+A1:2010

Based on the EMC Directive 2004/108/EC and the specifications of the customer, one sample of the designated product has been tested in our laboratory and found to be in compliance with the EMC standards cited above.

Central Research Technology Co.
EMC Test Laboratory
11, Lane 41, Fushuen St., Jungshan Chiu, Taipei, Taiwan, 104, R.O.C.
Tel : 886-2-25984558
Fax: 886-2-25984546

(Tsun-Yu Shih/ General Manager)
Date: July 22, 2013
Verification of Compliance

Product Name: 2.5" SATA SSD 3MG-P/3IE-P/3MR-P
Model Number: D@S25-XXXX67* # % &
@: Feature set (G: EverGreen, H: ISLC, R: InnoRobust)
XXX: 8GB~512GB
*: Flash Mode
#: Temperature (C: Commercial Temp, W: Industrial Temp)
%: PCB Version (A, B, C,… or 1, 2, 3…)
※: Channel (S: Single, D: Dual, Q: Quad, E: Eight)
&: Flash Vender (T: Micron SLC, S: Samsung SLC, N: Micron MLC,
B: Toshiba SLC, C: Toshiba MLC, F: Sandisk SLC, X: SLC)

Applicant: InnoDisk Corporation
Address: 9F, No.100, Sec. 1, Xintai 5th Rd., Xizhi Dist., New Taipei City 221,
Taiwan
Report Number: F-U070-1306-260
Issue Date: July 22, 2013

Applicable Standards: FCC Part 15, Subpart B Class B ITE
ANSI C63.4:2009
Industry Canada ICES-003 Issue 5
CSA-IEC CISPR22-10 Class B ITE

One sample of the designated product has been tested in our laboratory and found to be in compliance with the FCC rules cited above.

Central Research Technology Co.
EMC Test Laboratory
11, Lane 41, Fushuen St., Jungshan Chiu,
Taipei, Taiwan, 104, R.O.C.
Tel: 886-2-25984568
Fax: 886-2-25984546

(Tsun-Yu Shih/ General Manager)
Date: July 22, 2013
GRAND-DUCHE DE LUXEMBOURG
Ministère du Développement durable
et des Infrastructures
Département des Transports
L-2338 Luxembourg

SOCIETE NATIONALE DE
CERTIFICATION ET D'HOMOLOGATION
s.r.l.
Registre de Commerce: B 27180
L-5201 Sandweiler

Référence:  E13*10E00*10R04*13360*00
Annexes:  - Rapport Technique
          - Fiche de Renseignements du constructeur

Sandweiler, le 21 août 2014

Communication concernant le délivrance d'une homologation:
- approbation accordée
- élimination d'homologation
- approbation annulée
- refus d'homologation
- approbation validée
- retrait d'homologation
- arrêté définitif de la production
- arrêté d'homologation définitivement désisté

d'un type de sous-ensemble électrique/electronique en ce qui concerne le Règlement N° 10.
of a type of electron/electronic sub-assembly with regard to Regulation N° 10.

Numéro d'homologation par type:  E13*10R00*10R04*13360*00
Marque d'homologation:  10R - 04 13360

1. Fabricant (marque commerciale du constructeur): Inmodisk
   Make (trade name of manufacturer):

2. Type:  2.5" SATA SSD 3MR-P
   Type:  2.5" SATA SSD
   Denomination(s) commerciale(s) générale(s):  2.5" SATA SSD
   General commercial description(s):
   Version(s)/Variante(s):  2.5" SATA SSD 3MR-P (where * can be G or R)

3. Moyens d'identification du type, s'il
   ne sont marqués sur le composant / Means of identification of type, if marked on
   entité-technique(s):  Type name print on the label and label and stick on the
   composant / separate-technical-unit

Page 1 of 5
Test report

E. u. T.: 2.5" SATA SSD
Test with optional Industrial PC-System
"ADVANTECH – ARK-VH200"

Model: 2.5" SATA SSD 3MR-P
Version: 2.5" SATA SSD 3M*P (where * can be G or R)

Applicant: Innodisk Corporation
5F., No. 237, Sec. 1, Datong Rd., Xinzhi Dist., New Taipei City 221,
Taiwan (R.O.C.)

Date of tests: 07 / 07 / 2014 to 08 / 08 / 2014
Place of tests: Perl-Sinz

Project No.: 27804_07072014_3MR-P_SAE
Date of Report: 08 / 13 / 2014
Pages complete: 31

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The test data of this test report relate only to the individual item which have been tested.