

Model Name:	HD-323-S3A	Rev. No.	1.1
		Issue Date	Sep-05-2012

3.5" SATAIII to USB 3.0 External Enclosure

HD-323-S3A



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1. Overview

HD-323-S3A is designed to meet the upward growing trend for 3.5" SATA III HDD. With its embedded high speed clocking controller IC, this device bridges SATA III HDD to USB3.0 connectivity, thus truly utilize USB3.0 super speed. Outstanding design in rigid aluminum with LED indicator gives off quality element to this case. Fabricated in rigid aluminum, HD-323-S3A applies catalytic heat dissipation mechanisms to remove heat out of the enclosure housing efficiently.

2. Specification

- ✧ 3.5" SATA I / II /III specification.
- ✧ Support SATA HDD up to 4TB
- ✧ UASP(USB attached SCSI protocol) technology enhanced
- ✧ Operates at Super (5Gbps) or High (480Mbps) or Full (12Mbps) speed.
- ✧ SATA to USB 3.0, backward compatible to USB 2.0 or USB 1.1.
- ✧ OS Supports: Window XP/Vista/7/8.
- ✧ Material: Aluminum Case and ABS plastic HDD tray.
- ✧ Front panel located LED for Power & R/W activity
- ✧ Dimension (LxWxH) : 191.5 x 115.4 x 31.4 mm

3. Feature

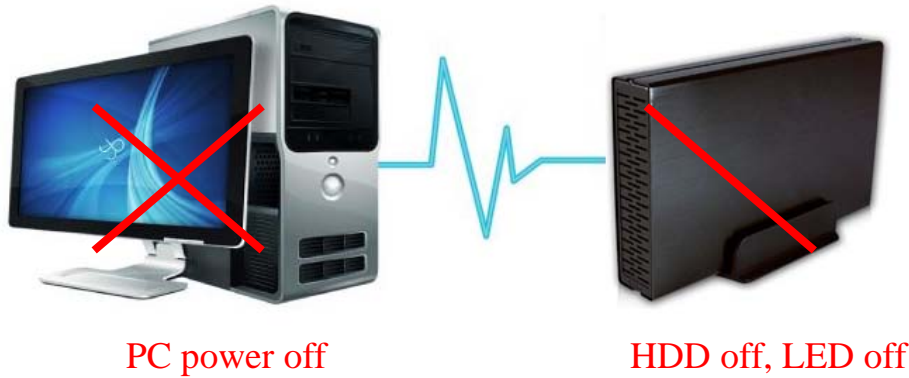
- ✧ Power synchronization with PC, saving the power when the device is not in use
- ✧ USB 3.0 super-speed
- ✧ Hair line, rigid Aluminum case
- ✧ Plug and Play, Hot-swapping
- ✧ Fanless design thus no noise
- ✧ Sophisticated High- Power Blue LED and status indicator

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4. Power synchronization feature

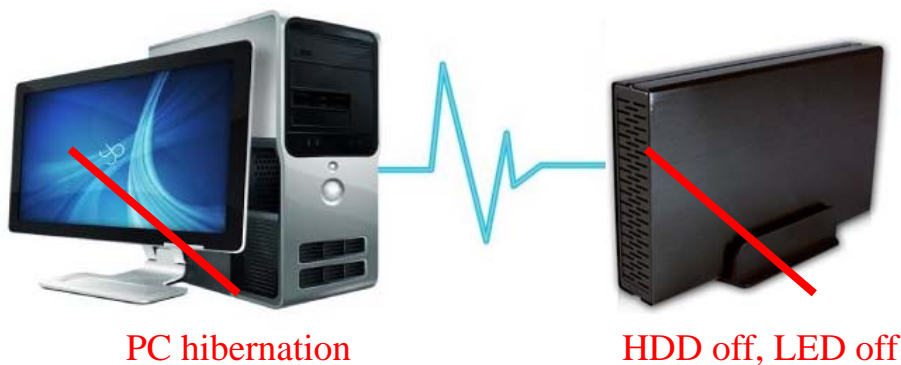
HD-323-S3A can detect the status of PC and turn on & off itself automatically

a. PC power off



b. PC hibernates (sleep mode)

Note: In some OS, when system reaches sleep mode, only monitor and peripheral turned off while motherboard is still powered on. In this case, HDD and LED will be still on.

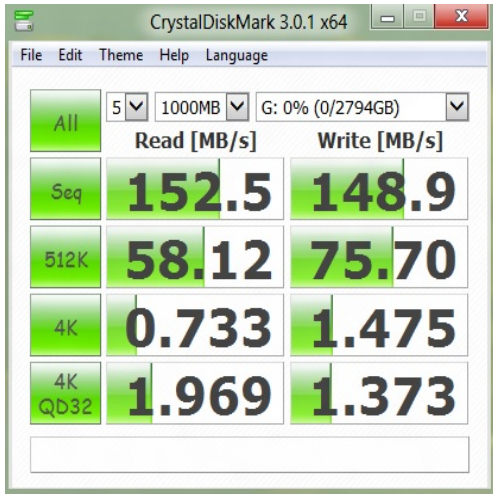
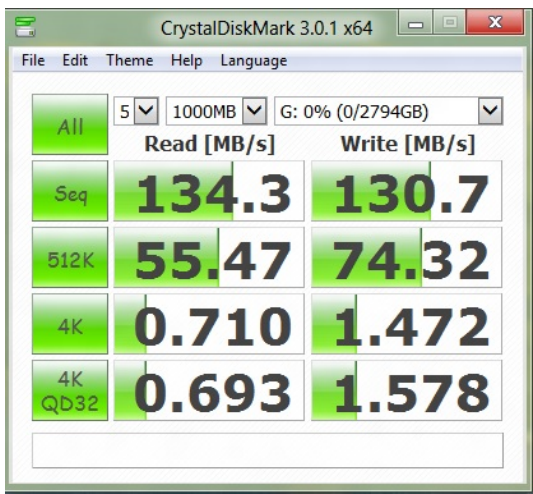


Note: To enhance smart power synchronization, do not turn off the main power of HD-323-S3A

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5. Comparison chart between SATA II and SATA III USB3.0 enclosures

Windows8

Test	SATA III to USB3.0 enclosure	SATA II to USB3.0 enclosure																																				
Seagate ST3300651AS(3TB, SATA III, 7200rpm)	 <table border="1"> <thead> <tr> <th></th> <th>Read [MB/s]</th> <th>Write [MB/s]</th> </tr> </thead> <tbody> <tr> <td>All</td> <td>152.5</td> <td>148.9</td> </tr> <tr> <td>Seq</td> <td>152.5</td> <td>148.9</td> </tr> <tr> <td>512K</td> <td>58.12</td> <td>75.70</td> </tr> <tr> <td>4K</td> <td>0.733</td> <td>1.475</td> </tr> <tr> <td>4K QD32</td> <td>1.969</td> <td>1.373</td> </tr> </tbody> </table>		Read [MB/s]	Write [MB/s]	All	152.5	148.9	Seq	152.5	148.9	512K	58.12	75.70	4K	0.733	1.475	4K QD32	1.969	1.373	 <table border="1"> <thead> <tr> <th></th> <th>Read [MB/s]</th> <th>Write [MB/s]</th> </tr> </thead> <tbody> <tr> <td>All</td> <td>134.3</td> <td>130.7</td> </tr> <tr> <td>Seq</td> <td>134.3</td> <td>130.7</td> </tr> <tr> <td>512K</td> <td>55.47</td> <td>74.32</td> </tr> <tr> <td>4K</td> <td>0.710</td> <td>1.472</td> </tr> <tr> <td>4K QD32</td> <td>0.693</td> <td>1.578</td> </tr> </tbody> </table>		Read [MB/s]	Write [MB/s]	All	134.3	130.7	Seq	134.3	130.7	512K	55.47	74.32	4K	0.710	1.472	4K QD32	0.693	1.578
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NOTE: Although UASP is embedded with this device, ultimate performance boost is rather observed in SATA III SSD. It is at buyer's discretion to mention UASP support.

UASP enhancement depend on below factors

a. OS- WIN8

b. USB3.0 Host- UASP enhanced host ie: PCIe host cards with controller of Renasas uPD720201, 720202, Fresco Logic FL1100, etc.

c. USB device- HD-323-S3A is compatible

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6. Package Contents:

HD-323-S3A is packed in a COLOR BOX. The enclosed item of HD-323-S3A package lists as below:

1. HD-323-S3A Unit
2. User Manual
3. Screw Pack
4. USB 3.0 Cable
5. Stand
6. Power adapter

7. Appearance Viewing



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8. Agency Approvals

FCC/CE certified
RoHS Compliant

9. OS Supports

1. Win-XP
2. Win-Vista
3. Win-7
4. Win-8
5. Linux Ubuntu 10.4 (Linux kernel 10.6.38) or later
6. Mac OS X 10.6 or later

Note: Only Win8 supports UASP

10. Packaging

OEM packaging.